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# The University of Buffalo Bulletin

College of Arts and Sciences

Catalogue for 1919-20



BUFFALO

Published January, April, July and October of Each Year

VOL. VIII, No. 1: JANUARY 1920

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# University Statistics, 1919-1920

DEPARTMENT	Founded	Number of Faculty	Number of Students	Years in Course	Degrees Conferred through 1919	
Medicine .....	1846	115	209	4	M. D.,	2728
Pharmacy .....	1886	15	136	2-3	Ph. G.,	717
					Phar. B.,	353
					Phar. M.,	29
					Phar. D.,	6
					Ph. C.,	7
Law .....	1887	24	136	3	LL. B.,	768
					LL. M.,	12
Dentistry .....	1892	57	170	4	D. D. S.,	1243
Pedagogy .....	1895*				Pd. B.,	5
					Pd. M.,	1
					Pd. D.,	2
Analytical Chemistry .....	1906	15	102	3	A. C.,	129
Arts and Sciences .....	1913	30		4		
		(reg.)	158			
		(sp.)	319		Ph. D.,	1
					B. S.,	1
		—	—			
		256**	1229			6,002

\*Discontinued in 1898.

\*Deducting duplications, 226.



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# The University of Buffalo

SEVENTY-THIRD YEAR

EIGHTH ANNUAL CATALOGUE  
OF THE  
COLLEGE OF ARTS AND SCIENCES  
1919 - 1920



BUFFALO, NEW YORK

JANUARY 1920

## CALENDAR

1920

- February 9.....Monday .....Second semester begins.
- February 23.....Monday .....University Day recess. Public exercises,  
11 A. M. Annual dinner, Federated  
Alumni Association, 7 P. M.
- February 27.....Friday ..... } Examinations for students conditioned in  
February 28.....Saturday ..... } first semester.
- April 1.....Thursday .....Spring recess begins, 8.30 A. M.
- April 6.....Tuesday .....Classes resumed.
- May 27.....Thursday .....Final examinations begin.
- June 11.....Friday .....Seventy-fourth Commencement.
- July 12.....Monday .....Summer session begins. (See separate an-  
nouncement, ready in June)
- September 20.....Monday .....Opening day for all departments.  
Convocation at 4.30 P. M. in Town-  
send Hall.
- September 21.....Tuesday .....Examinations begin for conditioned stu-  
dents.
- September 27.....Monday .....Instruction of first semester begins.
- November 2.....Tuesday .....Election day recess.
- November 24.....Wednesday .....Thanksgiving recess begins, 5:45 P. M.
- November 29.....Monday .....Classes resumed.
- December 22.....Wednesday .....Christmas recess begins, 8.30 A. M.

1921

- January 4.....Tuesday .....Classes resumed.
- January 28.....Friday .....Semi-annual examinations begin.
- February 9.....Monday .....Second semester begins.

# The University of Buffalo

## DEPARTMENTS

1846 <i>Medicine</i>	1892 <i>Dentistry</i>	
1886 <i>Pharmacy</i>	1895-1898 <i>Pedagogy</i>	L
1891 <i>Law</i>	1906 <i>Analytical Chemistry</i>	
1913 <i>Arts and Sciences</i>		

## CHANCELLORS

1846-1874.....	HIS EXCELLENCY MILLARD FILLMORE	L
1874-1884.....	ORSAMUS H. MARSHALL	
1884-1895.....	E. CARLETON SPRAGUE	
1895-1902.....	JAMES O. PUTNAM	
1902-1903.....	WILSON S. BISSELL	
1903-1905.....	GEORGE GORHAM ( <i>Acting Chancellor</i> )	
1909- .....	CHARLES P. NORTON ( <i>Vice-Chancellor</i> 1905)	

## THE COUNCIL

	<i>Elected</i>
CHARLES CARY, M. D.....	1879
LOUIS L. BABCOCK, LL. B. ....	1904
JOHN LORD O'BRIAN, B. A., LL. B., LL. D. ....	1904
JOHN B. OLMSTED, B. A.....	1904
CHARLES P. NORTON, B. A. (Chancellor) .....	1905
EDWARD MICHAEL .....	1906
PHILIP BECKER GOETZ, B. A. (Secretary).....	1914
WALTER P. COOKE, LL. B. ....	1916
THOMAS B. LOCKWOOD, B. A. ....	1919
ROBERT W. POMEROY, M. A. ....	1919
WILLIAM H. CROSBY (Treasurer) .....	1919
WILLIS G. GREGORY, M. D., Ph. G. ....	1890
<i>Member-elect from the Faculty of Pharmacy</i>	
CARLOS C. ALDEN, LL. M., J. D. ....	1913
<i>Member-elect from the Faculty of Law</i>	
DANIEL H. SQUIRE, D. D.S. ....	1913
<i>Member-elect from the Faculty of Dentistry</i>	
CHARLES SUMMER JONES, B. S., M. D. ....	1918
<i>Member-elect from the Faculty of Medicine</i>	
JULIAN PARK, Ph. D. ....	1918
<i>Member-elect from the Faculty of Arts and Sciences</i>	
GROVER W. WENDE, M. D. ....	1918
<i>Member-elect from the Medical Alumni</i>	
GEORGE S. BUCK, B. A. LL. B. ....	
<i>Mayor (ex-officio)</i>	

# Officers of Administration and Instruction

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CHARLES P. NORTON, Chancellor of the University

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## ADMINISTRATIVE BOARD

(With dates of expiration of office)

JULIAN PARK, Dean

ALBERT P. SY, 1923

WILFRED H. SHERK, 1922

M. SMITH THOMAS, 1921

PHILIP B. GOETZ, 1920

## STANDING COMMITTEES OF THE FACULTY

(The Dean is a member of all committees)

*Absences:* Professor Leary, Professor Sherk.

*Admissions and Credentials:* Professor Goetz, Professor Moore, Professor Shadle.

*Auditing:* Mr. Siekmann, Mr. Whitney.

*Library:* Mr. Casassa, Mr. Rhodes, Dr. Shearer.

*Courses of Study:* Mr. Mead, Mr. Pillsbury, Professor Sherk, Mr. Thomas.

*Social Activities:* Mr. Di Bartolo, Mr. Piper.

*Revision of Curriculum:* Professor Goetz, Professor Leary, Professor Moore, Professor Shadle, Professor Sherk, Mr. Sine.

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*Representatives on Committee of Management, University Y. M. C. A.:*  
Professor Park, Professor Sherk.

*Representatives on Committee on Student Activities:* Mr. Sine, Professor Sy.

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EMMA E. DETERS, Registrar

JEAN AGNEW, Librarian

CLARA H. GIBSON, B. A., Secretary to the Faculty.

## THE FACULTY

ALBERT P. SY, Ph. D., *Professor of Chemistry*

219 Crescent Ave.

Instructor in chemistry, Univ. of Buffalo, 1895-98; Assistant, Univ. of Illinois, 1898-99; Assistant Professor, Univ. of Buffalo, 1899-1900, 1904-08; instructor to ordnance officers, Sandy Hook, N. J., 1900-04; Professor, Univ. of Buffalo, 1908.

PHILIP BECKER GOETZ, B. A., *Professor of English, and Acting Professor of Latin and Greek; Chairman of the Faculty*

North Evans, N. Y.

Instructor and head of department, 1913; Professor, 1918.

WILFRED H. SHERK, M. A., *Professor of Mathematics*

367 W. Delevan Ave.

Instructor, Oberlin College, 1903-04; Professor, University of Akron, 1905-06; Instructor and head of department, Univ. of Buffalo, 1913; Professor, 1918.



- JULIAN PARK, Ph. D., *Professor of History, and Dean* 77 Richmond Ave.  
Instructor in French, 1913; Instructor in History and head of department, 1914;  
Professor, 1918.
- DANIEL B. LEARY, Ph. D., *Professor of Psychology, Instructor in Russian* 1310 Hertel Ave.  
Instructor in English and Pedagogy, College of Montana, 1910-11; Professor and  
head of the department of Education, Tulane University, 1916-18; Professor, Univ.  
of Buffalo, 1919.
- EDWARD J. MOORE, Ph. D., *Professor of Physics* 91 Fairchild Ave.  
Instructor 1911-14, Assistant Professor 1914-19, Extension Division, University of  
Chicago; Assistant 1907-08, Associate Professor 1910-19, Oberlin College; Professor,  
Univ. of Buffalo, 1919.
- WILLIAM V. IRONS, Ph. D., *Professor of Inorganic Chemistry (Faculty of  
Chemistry)* Kenmore, N. Y.  
Assistant Professor, 1910; Professor, 1918.
- C. MERRILL BROWN, M. A., *Assistant Professor of Chemistry* 79 Manchester Pl.  
Instructor, Williams College, 1914-17; Instructor, Univ. of Buffalo, 1917-18; Assistant  
Professor, 1918.
- ALBERT R. SHADLE, M. A., *Assistant Professor of Biology* 74 Day's Park  
Fellow in Zoology, Ohio State University, 1912-14; Assistant 1915-16, Instructor  
1916-18, Assistant Professor 1918-19, Cornell University; Assistant Professor, Univ.  
of Buffalo, 1919.
- M. SMITH THOMAS, A. C., *Associate in Physics* 771 Bird Ave.  
Instructor and head of department, 1913; Associate, 1918.
- FELIX A. CASASSA, B. ès S., *Officier d'Académie, Associate in French* 130 Mariner St.  
Instructor and head of department, 1913; Associate and head of department, 1918.
- P. FREDERICK PIPER, B. S., *Associate in Geology and Astronomy* 851 Richmond Ave.  
Instructor in Physics, 1914-19; Lecturer in Geology, 1917; Associate in Geology and  
Astronomy, 1919.
- FRANCESCO E. DI BARTOLO, B. A., LL. B., *Instructor in Italian* 22 Monticello Pl.  
Instructor in English, Methodist College, Rome, 1912-13; Instructor in Italian,  
Univ. of Buffalo, 1915.
- CARL WACHTER, B. A., *Instructor in Public Speaking* 46 North Pearl St.  
Assistant in Public Speaking, Union College, 1906-09; Acting Assistant Professor  
of English, Rensselaer Polytechnic Institute, 1909-10; Instructor in Public Speaking,  
University of Buffalo, 1916.
- MME. MARIE L. CASASSA, B. ès L., *Instructor in French* 130 Mariner St.  
Instructor, 1918.
- OCTAVIO SOTO, C. E., *Instructor in Spanish* 591 Grider St.  
Instructor, 1918.
- CARL F. SIEKMANN, *Instructor in German* 94 Parkdale Ave.  
Instructor, 1918.

- EDWARD W. SINE, B. A., *Instructor in English, and Secretary of the Faculty*  
35 East Utica St.  
Instructor, Syracuse University, 1916-19; Instructor, Univ. of Buffalo, 1919.
- ALBERT H. HOPKINS, B. A., *Instructor in Mechanical Drawing (Faculty of Chemistry)*  
449 W. Delavan Ave.  
Instructor, 1913.
- CHARLES E. RHODES, M. A., *Lecturer in English* 507 Potomac Ave.  
Lecturer, Chautauqua Summer Schools, 1908; Lecturer, Univ. of Buffalo, 1916.
- MARY HAMMETT LEWIS, *Lecturer in Education* 2412 Main St.  
Lecturer in Education, University of Pennsylvania, summer session, 1911-17; Lecturer and head of department, Univ. of Buffalo, 1916.
- CHARLES W. WHITNEY, Ph. M., *Lecturer in Economics* 1028 Elmwood Ave.  
Lecturer, 1917.
- AUGUSTUS H. SHEARER, Ph. D., *Lecturer in History* 383 Franklin St.  
Assistant in History, Harvard, 1901-04; Instructor, Trinity College, 1904-06; Instructor, Dartmouth College, 1906-09; Assistant and Acting Professor, Hamilton College, 1909-12; Lecturer, Northwestern University, 1916-17; Lecturer, Univ. of Buffalo, 1918.
- WALTER D. HEAD, M. A., *Lecturer in Education* 873 West Ferry St.  
Lecturer, 1918.
- , *Lecturer in Philosophy.*
- LOUISA H. S. LAWTON, B. S. in Education, *Lecturer in Education* 2412 Main St.  
Lecturer, 1918.
- W. HOWARD PILLSBURY, B. A., *Lecturer in Education* Telephone Bldg.  
Lecturer, 1919.
- HARRY W. JACOBS, *Lecturer in the Teaching of Art* 45 Brantford Place  
Lecturer, 1919.
- WILLIAM E. WEAVER, *Lecturer in the Teaching of Commercial Subjects* 45 Laurel St.  
Lecturer, 1919.
- EUGENIE L. CHAMOT, *Lecturer in the Teaching of French* 69 Johnson Park  
Lecturer, 1919.
- HAROLD L. OLMSTED, B. A., *Lecturer in the History of Art* 185 Bryant St.  
Lecturer, 1919.
- RICHARD F. MORGAN, Phar. D., *Lecturer in Bibliography* 383 Franklin St.  
Lecturer, 1920.

## SPECIAL LECTURERS, 1918-19

HON. ADELBERT MOOT, Regent University of the State of New York (speaker at opening convocation).

PROFESSOR S. H. CLARK, Ph. D., University of Chicago.

REV. CAMERON J. DAVIS, Buffalo.

J. H. T. STEMPEL, Ph. D., Buffalo.

B. R. BAUMGARDT, New York (lecturer on the Roswell Park Foundation).

CHARLES A. EASTMAN, M. D., Amherst, Mass.

AGNES REPPLIER, Litt. D., Philadelphia.

CHARLES UPSON CLARK, Ph. D., Rome.

REV. HARRY E. FOSDICK, D. D., New York (University Day Speaker).

REV. CHARLES H. STEWART, D. D., Buffalo (Commencement speaker).

# The University and the City

THE CITY. Ever since its establishment the University has been so closely identified with the growth of the city that certain facts preliminary to the history proper of the University may be of interest. The village of Buffalo was laid out by Joseph Ellicott, the surveyor, in 1801-2; it grew rapidly, became the county seat in 1808, quickly recovered from its total destruction during the war of 1812, and obtained a city charter in 1832. Among the factors contributing most to its growth and prosperity has been its location, notable both for its natural beauties and for its commercial advantages. The high land and temperate climate, together with excellent drainage and water-supply systems, make Buffalo one of the healthiest cities in the country. Its population, numbering today 530,000, is cosmopolitan. It is a city of homes and culture; the character of its citizenship makes for an atmosphere singularly favoring those agencies and institutions which diffuse general intelligence and refinement. It is the largest city in the country which has adopted the commission form of government. Its educational system includes grammar, high, and normal schools, the equipment and staff of which are of noteworthy excellence, four new high schools and the state normal school having been completed within the last four years. There is constant and close co-operation between the superintendent, officials, and teachers of the city School Department, the Normal School, and the University, about two hundred teachers last year being registered in the College of Arts and Sciences as special students.

THE UNIVERSITY. The beginnings of the endeavors for higher education in Buffalo reach back to within three years after the town became a city. A charter for the Western University was secured from the Legislature in 1835, and the project was actively forwarded until it was halted by the economic panic of 1837. After the lapse of a few years it was revived by a group of physicians who aimed to fill the need in this part of the state of facilities for medical education. These eminent men, Drs. James P. White, Frank H. Hamilton, Austin Flint, and others, while the interests of their own profession naturally came first, were far-seeing enough to place the basis of medical education on an academic foundation. They did not live to see the establishment of facilities for the academic training of medical students in their own institution, but they provided the first requisite toward that end—legal permission. On May 11, 1846, the act of incorporation was passed by the Legislature.

The seal of the University shows that the founders had in mind colleges not only of medicine and arts, but of theology and law; but each of its departments has been added in response to recognized demands for instruction in the various professional branches. It was, however, forty years before the next department, that of Pharmacy, was established. In that year, 1886, the institution awoke to the further needs of the community in the matter of professional training. Many men eminent in their callings unselfishly offered their services

to perpetuate the best traditions of their respective professions, and the University gladly availed itself of their public spirit. The policy of expansion which had begun with the founding of the Pharmacy Department was continued by the establishment of departments of Law (1891), Dentistry (1892), Pedagogy (1895, but discontinued in 1898), and Chemistry (1906). Advantage was thus taken of the broad powers granted by the charter of offering instruction and conferring degrees in any branch of professional or academic learning.

On July 1, 1919, the buildings, lands, and equipment of the University had an estimated value of \$856,996.78; the net property owned (including endowment) amounted to a total of \$1,364,269.18. The present property of the University comprises the building on High Street, occupied by the departments of Medicine, Pharmacy, and Chemistry; the adjoining building on Goodrich Street, occupied by the Department of Dentistry, which also leases space in the Sidway Building, four blocks below the college building on Main Street, to the extent of 6,000 square feet, where a new chemical laboratory has been installed; the building of the Law Department, on West Eagle Street, opposite City Hall and adjacent to Townsend Hall; Townsend Hall, on Niagara Square, which at present accommodates the College of Arts and Sciences; and a tract of 106 acres, situated on the highest land in the city, at the junction of North Main Street and the city line. This property, valued at more than \$500,000, was purchased from the county in 1909, the money being raised by popular subscription; the land will constitute the future campus for the College of Arts and Sciences and for certain of the professional departments.

Although the University up to 1913 was a group of professional schools only, the project of completing it by the establishment of a liberal arts department had been before the people of Buffalo for a number of years. A modest beginning was finally made in 1913, when the University Council authorized instruction in certain courses of college grade. Since then these courses have been successfully carried on, with considerable additions to the curriculum from year to year as public demands have been expressed and satisfied. In 1915 the courses, up to that time more or less under the auspices of the Medical Department, were constituted a separate department of the University, and since that year several noteworthy gifts have been made possible its erection into a permanent college, enabling the University of Buffalo to take rank as a complete and well-rounded institution.

The first of these gifts came on February 22, 1915, when the Women's Educational and Industrial Union presented its building to the University, conditional on the raising, before February 22, 1916, of \$100,000 toward endowment. On the latter date this condition was complied with Mrs. Seymour H. Knox with her children giving the necessary amount, as well as pledging \$50,000 for each of the next three years and a final amount of \$250,000 as a bequest. This munificent gift, together with others which have already been and may be from time to time added to it, is known as the Seymour H. Knox Foundation, of which the income <sup>is</sup> to be used for endowment for the College of Arts.

During the spring of 1919, the sum of \$300,000 was raised among a few friends of the University to take care of its immediate needs, as well as for erecting an addition to the medical building in order to provide for more laboratory space. A large part of this amount was contributed by alumni, showing their continued interest and loyalty. The University has now reached a position where its usefulness to the community, in more varied and valuable ways than it has ever before served the city, is receiving city-wide recognition.

The University of the State of New York (The State Department of Education) has encouraged the new institution with advice and practical help from the outset. In 1915, after registering the freshman year of the college, it signified its intention of taking similar action from year to year until the full four-years' course should be recognized. In accordance with this action, the sophomore, junior, and senior years were approved, respectively, in 1917, 1918, 1919. This removed the institution from the class of "junior colleges," and it only awaited the restoration of normal conditions to plan a campaign for buildings and endowment which should adequately provide for those facilities for higher non-sectarian, co-educational training which the city has so long lacked.\*

### **College Library**

The reference library, now consisting of about six thousand volumes, is accommodated in the Ripley Memorial Library room. Students have direct access to all books, the library being open from 9 A. M. to 6 P. M. on every week day during the college year and during vacations at stated hours. A card catalogue covers the collection. Books of a general nature, not in use by any class, may be drawn by students, two volumes at a time, to be retained for two weeks. Monthly or quarterly periodicals may be drawn for two days, weeklies for over night. In addition to the Arts library are those of other departments of the University. The libraries of the Medical and Law departments, amounting respectively to 15,000 and 5,000 volumes, contain considerable material of value to those pursuing certain kinds of college work. Moreover, the resources of the Buffalo Public Library and the Grosvenor (reference) Library are at the disposal of students, the building of the former being but three blocks distant from Townsend Hall.

### **Lectures and Assemblies**

An assembly of students and instructors is held at weekly intervals in Townsend Hall. At these meetings there is often music and an address by some guest of the University or a member of the faculty, so that during the year a number of instructive and helpful talks are given. Several special lec-

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\* Those interested in the development of the University are referred to "A History of the University of Buffalo," which appeared as the leading article in Volume 22 (1918) of The Publications of the Buffalo Historical Society. A reprint may be had by those interested.

tures, generally professors in other universities, come during the fall and winter to give addresses on subjects in which they are authorities, and these extension lectures are free to the general public. The Roswell Park Lectureship Fund provides lectures during the year on scientific subjects; but apart from that fund the attempt is made to secure addresses on varied themes by men and women distinguished in both science and the humanities.

No compulsory religious exercises are held by or at the University. Many churches, however, conduct Bible classes especially for students of the various denominations.

At convocations and other public functions, members of the faculty wear academic costume in keeping with their degrees. The University colors are white and blue.

# Admission

*All correspondence in matters of admission should be addressed to the Chairman of the Committee on Admissions.*

## REQUIREMENTS FOR ADMISSION

The College of Arts and Sciences, like all of the other departments of the University, is non-sectarian and co-educational. Candidates for admission must present satisfactory evidence of good character, including a recommendation from the head of the school last attended. Regulations concerning those coming from other colleges may be found on page 18.

Application for admission should be filed by candidates *as soon after the completion of the preparatory work as possible*. Since it may be found necessary on account of limited accommodations to restrict the number of students to be enrolled in 1919-20, an early application is essential, and the Faculty reserves the right to decline to matriculate students whose applications are received at a date after the number of possible vacancies may have been filled.

A blank form which may be used in applying for admission is inserted in this catalogue. Additional copies may be secured from the registrar. On receipt of the application blank filled out, the registrar will send to the principal of the school last attended by the candidate a copy of the statement required for admission. On this blank is to be given a transcript of the candidate's scholastic standing during each of the previous four years. Upon the receipt of this statement in satisfactory form depends the matriculation of the candidate. Statements must be signed by the principal of the school (or some one duly qualified to act in his stead) and are to be sent by him to the Chairman of the Committee on Admissions. Blank statements will be sent to the principal of any school on his request or that of a prospective student, but they are not sent to other persons, and must be returned by the school, not by the applicant. When more than a year has passed between the completion of the work for which the statement vouches and the time of admission to college, satisfactory evidence that the candidate has kept up his studies in the interval is required.

No matriculation of regular students will be permitted after the week in which college opens. This rule also applies to special students who wish college credit for their work.

A fair equivalent of the requirements for admission will be accepted, but candidates for admission are advised to conform literally to the statements as here set forth. Enough latitude is allowed among the elective subjects accepted for entrance to provide for the various courses of study (except the commercial course) offered in the high schools, without affecting the subjects required of all.



The scholastic requirement for admission is the completion of a four-year course of standard high-school grade, or its equivalent. This is the indispensable minimum, but is not necessarily a guarantee of admission. Early in their high school course students planning to enter this college should see that their curriculum embraces each of the required subjects. They can only do so, in some cases, if they settle before their senior high school year upon their choice of a college, and even upon their vocation, since entrance requirements and college curricula often depend upon the profession to be chosen.

Applicants secure admission to the college by one of the following methods:

(a) **CERTIFICATION.** This is the customary form of entrance; but it should be borne in mind that it presupposes graduation, with credit for the proper subjects, from an *accredited* secondary school; and only certificates made out on the prescribed form and signed by principals of such schools are accepted in lieu of entrance examinations. By "accredited schools" is meant those secondary institutions which are fully approved for a four-year course by the New York State Department of Education. Handbook No. 24 of that department should be consulted for a list of such schools in this state.

(b) **REGENTS' EXAMINATIONS.** Those not holding the school diplomas of graduation may make up deficiencies and secure the necessary credit by passing Regents' examinations in January or June in those subjects which they lack. It should be borne in mind that the September examinations are only for those desiring qualifying certificates admitting them to professional schools. Handbook No. 23 of the State Board of Regents (State Department of Education) gives information regarding these examinations. In 1920, they are held on the following dates: January 19-23, June 14-18, September 7-9, (not held for the schools).

(c) **COLLEGE ENTRANCE EXAMINATION BOARD.** An application to take these examinations must be made to the Secretary of the Board, 431 West 117th Street, New York City, from whom all necessary information may be obtained. These examinations are held annually at a large number of widely distributed points, including Buffalo. In 1920 they will be held from June 21-26, inclusive.

## ENTRANCE REQUIREMENTS

For students expecting to be candidates for the B. A. or B. S. degree, a total of 14½ units is required. A unit is the equivalent of five recitations a week for one year in one branch of study. Two hours of laboratory work count as one hour.

The subjects and units required for admission to the B. A. and B. S. courses are as follows:

B. A. COURSE		B. S. COURSE	
English .....	1	English .....	3
Algebra: Elementary .....	1	Algebra: Elementary .....	1
Intermediate .....	$\frac{1}{2}$	Intermediate .....	$\frac{1}{2}$
Plane Geometry .....	1	Plane Geometry .....	1
History .....	1	History .....	1
Either 4 years of Latin .....	4	3 years of any language .....	3
and 2 years of any other lan- guage .....	2	[Or 2 years of any two lan- guages .....	4]
[Or 3 years of Latin .....	3	Science .....	1
and 3 years of any other language .....	3]	Elective .....	3—4
Science .....	1		14 $\frac{1}{2}$
Elective .....	1		
<hr/>		<hr/>	
14 $\frac{1}{2}$			

CONDITIONS. No candidate is eligible for admission as a regular student who presents fewer than 13 $\frac{1}{2}$  units of work. All conditions must be removed before a certificate for the year's work will be granted. However, no entrance conditions whatever will be allowed in the case of those whose high school grades do not average 80%.

## SPECIFICATIONS OF THE REQUIREMENTS IN EACH SUBJECT

The lack of uniformity in college entrance requirements has been such an annoyance to secondary schools that the University of Buffalo, wishing to do its share in reducing the confusion to a minimum, places few restrictions on the nature of work in each subject. The main purpose of all the requirements for admssion is to select applicants who are likely to profit most by the college courses. The following observations concerning different subjects are, however, recommended for serious consideration.

(1) ENGLISH. By three units in English is understood *four years* of work completed in that subject, since the usual school course allows only three hours per week in the upper years.

(2) MATHEMATICS. One year of algebra is insufficient. The intermediate algebra (quadratics and beyond) should, if possible, come in the last year of the school course.

(3) **LANGUAGE.** While three units of Latin are accepted for the B. A. course, the faculty strongly recommends that four be offered. Those looking forward to studying medicine will find at least two years of Latin highly profitable. In no language are fewer than two units accepted for either course.

(4) **HISTORY.** For either course a choice of history is offered. Candidates may present either (a) ancient history to 800 A. D.; (b) medieval and modern; (c) English; (d) American, with civics.

(5) **SCIENCE.** Candidates for either course may offer physics, chemistry, biology, advanced botany, advanced zoology, or physical geography.

(6) **ELECTIVES.** A sufficiently wide latitude of choice is allowed so that almost any high-school diploma includes the subjects which are accepted to make up the units of electives.

## **PRE-MEDICAL COURSE**

A two-year course is offered by this college which meets the requirement exacted of those intending to enter upon the study of medicine at the University of Buffalo. The subjects for which credits for admission to the pre-medical course may be accepted, totalling fifteen units, are shown in the accompanying schedule, prepared by a joint committee of the Council on Medical Education of the American Medical Association and the Association of American Medical Colleges. It also meets the preparatory requirement exacted by the State Department of Education for the medical student's qualifying certificate. The latest handbook of the University of the State of New York gives the following requirements: "Before the medical student certificate can be issued the applicant must satisfactorily complete these two years of college study. Moreover, the applicant should present evidence of having completed satisfactory courses of study in the three sciences,—physics, chemistry, and biology,—and the modern language, during his secondary school course of study. The secondary study of the subjects precedes and is in addition to collegiate study of the same subjects. Students deficient in their secondary courses in any of the above sciences may make up such deficiency by the completion of at least eight semester hours (four year hours) of college work in the science or sciences in which there is a deficiency."

The Faculty of Arts and Sciences, together with the Faculty of Medicine, strongly urges upon all those intending to enter upon the study of medicine the desirability of the inclusion of Latin in the secondary curriculum. It also calls attention to the requirement in mathematics, necessitating credit in intermediate algebra.

The subjects printed in capitals on the following list, aggregating  $8\frac{1}{2}$  units, are required. Other work to the amount of six and one-half units may be made up from any of the other subjects outlined on the next page.

# SUBJECTS ACCEPTED FOR ENTRANCE TO THE PRE-MEDICAL COURSE

	Total Units Accepted	Required	Elective
ENGLISH COMPOSITION (or Rhetoric) and LITERATURE .....	3-4	3	1
Mathematics :			
ELEMENTARY ALGEBRA .....	1	1	..
INTERMEDIATE ALGEBRA .....	$\frac{1}{2}$	$\frac{1}{2}$	..
Advanced Algebra .....	$\frac{1}{2}$	..	$\frac{1}{2}$
PLANE GEOMETRY .....	1	1	..
Solid Geometry .....	$\frac{1}{2}$	..	$\frac{1}{2}$
Trigonometry .....	$\frac{1}{2}$	..	$\frac{1}{2}$
LATIN .....	2-4	2*	2-4
GREEK .....	2-4	2*	2-4
FRENCH .....	2-4	2*	2-4
GERMAN .....	2-4	2*	2-4
SPANISH OR ITALIAN .....	2	2*	..
History :			
Ancient .....	1	**	1
Medieval and Modern .....	1	**	1
English .....	1	**	1
American, with Civics .....	1	**	1
Science***			
Biology**** .....	1	..	1
Botany .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Zoology .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Physiology .....	$\frac{1}{2}$	..	$\frac{1}{2}$
Chemistry .....	1	..	1
Physics .....	1	..	1
Physical Geography .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Agriculture .....	1-2	..	1-2
Bookkeeping .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Commercial Geography .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Domestic Science .....	1-2	..	1-2
Drawing—Freehand and Mechanical .....	$\frac{1}{2}$ -2	..	$\frac{1}{2}$ -2
Economics .....	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Manual Training .....	$\frac{1}{2}$ -2	..	$\frac{1}{2}$ -2
Music—Appreciation or Harmony .....	1	..	1

\*Two units are the minimum accepted.

\*\*One unit of history prescribed.

\*\*\*Credentials of each science course must include evidence of laboratory work.

\*\*\*\*Either one year of biology, or one-half unit *each* in botany, zoology, and physiology.

CONDITIONS. Pre-medical students may carry conditions not to exceed one unit, such conditions to be removed by the end of the freshman (Arts) year. The Medical Department of the University of Buffalo allows no conditions to be carried over from the work of the pre-medical course.

## PRE-DENTAL COURSE

Beginning in September, 1921, a one year pre-dental course will be offered in accordance with the following State requirement:

A dental student certificate may be obtained *after* January 1st, 1921, upon the presentation of satisfactory evidence of the completion of not less than one year of instruction in any approved college of liberal arts and science, after the completion of an approved four year high school course, based upon eight years of elementary preparation. The year of college instruction must be of at least fifteen week hours, including English 3, physics 3, biology 3 and chemistry 3.

## SPECIAL STUDENTS

Persons of maturity are admitted to take one or more courses provided they give evidence of ability to perform successfully the regular work of the courses they wish to pursue. Those expecting to become candidates for a degree are required *at the time of their matriculation* to file the regular entrance credentials for the course leading to the degree which they have in view. Special students are subject to all the general rules of the college concerning discipline, absence, etc. In the matter of tuition fees and in arranging the hours of classes, the college endeavors to be of service as far as practicable to this large class of students, the majority of whom are teachers in the city schools.

## ADMISSION FROM OTHER COLLEGES

A candidate for admission to advanced standing from an institution of collegiate rank may receive credit without examination for work completed at such an institution subject to the following requirements:

1. He must present a catalogue of the institution from which he comes, together with an official certificate showing (a) his entrance credits at that institution, (b) his college record including grade of scholarship in each subject taken, (c) honorable dismissal.
2. He must have completed creditably the work of at least one year in an institution of collegiate rank.
3. He must satisfy the entrance requirements of this College, using his advanced credits for this purpose if necessary.

4. Credit is allowed only for work equivalent to courses in this College.

5. Credit for such courses is regarded as provisional at the time of the applicant's admission to college, and will not be considered as final, nor will the applicant be given final enrollment, until he has satisfactorily completed at least one semester's work in this College.

6. Candidates will be accepted only at the beginning of the year, and when accepted will be regarded as provisionally enrolled for that year.

7. The applicant must indicate at the time of his admission all his claims for credit.

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A high-school graduate who has subsequently been graduated from a New York State normal school in a course covering two years or more, will be given sixteen year hours credit toward a Bachelor's degree.

# Courses of Study

The curricula of the College embrace the following courses of study: the **Arts** course, leading to the degree of Bachelor of Arts; the **Science** course, leading to the degree of Bachelor of Science; the **pre-medical** course, leading to entrance to the Medical Department. A **pre-dental** course will be required of those entering the Dental Department in 1921.

**Courses in Education.** The College maintains close cooperative relations with the Buffalo School Department and the State Normal School, and with the two public libraries of the city. In view of the fact that the School Department has entered upon the important enterprise of erecting twelve new intermediate, or junior high, schools\*, for which the teachers have yet in a large measure to be trained, the College this year has added facilities for training teachers who expect to work in the various departments in the new type of schools. These courses, as well as all those which would be of interest to teachers generally, have the cordial approval of the Superintendent of Schools, and some of them are taught by experts from the School Department. Teachers interested in such work (which next year will probably be considerably expanded) should consult the synopsis of the courses numbered 15 under the following departments: Art, Commercial Subjects, English, French, Mathematics, Physics (for general science), as well as the courses in Education, Philosophy, Sociology, and Psychology.

**Courses in Library Science.** In anticipation eventually of establishing a School of Library Science, a beginning has been made with a first course in that subject, a description of which may be found under the department of Library Science. The other courses listed under that department will be offered in 1920-21, but course 1 will be the only one which may be credited toward a degree in Arts or Science. Certificates for the successful completion of one or all of the other courses will be issued, which may later be credited toward a degree in Library Science when such a degree is established.

## CURRICULA

**Freshman Year.** In the freshman year the studies are mainly prescribed, the courses taken depending upon the subjects presented for admission. After freshman year the studies taken are partly elective, partly required, subject to the limitations of the group system.

Candidates for the B. A. degree must take Latin, English, and mathematics, and either one year of the modern language presented for admission or two years of another foreign language; and must choose one of the following

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\* The "Buffalo Plan" of intermediate schools, and the training of teachers therefor, is described at some length in the April 1919 issue of the University of Buffalo Bulletin, which may be had on application. The articles are by Superintendent Hartwell and by W. Howard Pillsbury, secretary to the Superintendent, who is a lecturer on education in the University faculty.

courses: Greek, French, German, Spanish, Italian, chemistry, biology, history, If his total number of hours weekly does not, by his election, amount to more than sixteen, he must also include public speaking. This applies also to B. S. candidates.

Candidates for the B. S. degree must take English, mathematics, one or two modern languages, and must choose one or two of the following courses: Greek, chemistry, biology, history.

Those who offer for entrance two years each of two modern languages may continue each of these languages for one year, or either of them for two years. Those who offer three years of one modern language may have the option of (1) continuing that language for one year and taking two years (i. e., in freshman and sophomore year) of a second modern language, or (2) of taking one year of Greek and two years of another modern language.

After the student's entrance credentials have been submitted and accepted, the registrar sends him a statement of the courses open to his election, requesting that the choice of studies be made before a certain date and enclosing a blank to be used for this purpose.

Sophomore Year			
B. A.		B. S.	
	Hours Weekly		Hours Weekly
English 2 .....	2	English 2 .....	2
Language (depending on freshman election)		Language (depending on freshman election)	
Chemistry 1, Physics 1, or Biology 1 or 2 .....	4	Physics 1 .....	4
History 1 .....	3	Biology 1 or 2, or Chemistry 1 .....	4
<hr/>		<hr/>	
Electives to make a minimum of	16	Electives, to make a minimum of	16

**Junior Year, Both Courses**

Psychology 1 (unless already elected) .....	3
Electives, to make a minimum of .....	16

**Senior Year, Both Courses**

Philosophy 1 (unless already elected) .....	3
Electives, to make a minimum of .....	16



## PRE-MEDICAL CURRICULUM

FRESHMAN YEAR		SOPHOMORE YEAR	
English 1 .....	3	English 2 .....	2
Mathematics 1 .....	4	English 6 .....	1
Chemistry 1 .....	4	Physics 1 .....	5
Biology 1 .....	4	Biology 2 .....	4
Language* .....	3	Chemistry 2 .....	3
	18	Language or elective** .....	3
			18

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\* Continuation of the language taken in school. If the student presents Latin for entrance, he begins French in college.

\*\* If the pre-medical student has offered for entrance three years of any modern language, he may choose a three-hour elective in his sophomore year, and is advised to take psychology.

## GROUP SYSTEM

The endeavor has been made to construct a reasonable and flexible group system which shall leave adequate freedom for individual needs and abilities, and at the same time prevent undesirable scattering of the student's energies. Provision is made for a combination of certain fundamental subjects and free electives with special work that shall be more scholarly and more finally valuable both for cultural attainments and scientific efficiency.

Furthermore, the group system is so arranged that the first two years in Arts or Science provide alike a foundation for more advanced work along university lines and a sound preparation for courses in several of the professions to which college trained men are attracted. This is not so much because the college of liberal arts should be considered as the stepping-stone to a profession, as it is in accordance with the growing conviction that the college course must do its part in the genuine preparation of students for a vocation. In accordance with its resources, however, this college puts foremost its function of offering every opportunity for the acquiring of a liberal education in the most enlightened sense of the word.

The **group system** adopted by the faculty provides for the arrangement of all departments of instruction in three groups, and requires that each candidate for the Bachelor's degree shall have completed courses totalling a credit of twenty-one year hours in one of these three groups. At least six hours of the most advanced work offered by any one or more departments in that group must be included. The groups are arranged as follows:

**GROUP I.**

*Language, Literature,  
Art*

Comprising the  
departments of

English  
Latin  
Greek  
French  
German  
Spanish  
Italian  
Russian  
Art

**GROUP II.**

*History, Social  
Sciences, Philosophy*

Comprising the  
departments of

History  
Economics  
Government  
Sociology  
Philosophy  
Psychology  
Education\*  
Bibliography and Library  
Science

**GROUP III**

*Mathematics, Physical  
and Natural Sciences*

Comprising the  
departments of

Mathematics  
Physics  
Chemistry  
Biology  
Geology  
Astronomy

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\* Including the courses in the teaching of special subjects, which may be found described under the separate departments.

## **ADMINISTRATIVE RULES**

It is the aim of the College to develop in the individual a sense of personal responsibility for good order, a sense of pride in the good name of the University, and a high standard of scholarship; and to secure, in the largest measure, his cooperation with the faculty in the development of his own character. But if such co-operation is plainly impossible, a student may be dismissed, suspended, or placed upon probation at any time, even without previous warning.

### **Faculty Committees**

All matters to be referred to any faculty committee should be done so through the Dean. Any student has the right of appealing from the decision either of the Dean or of a committee, to the Administrative Board or to the general faculty. The Administrative Board is the executive committee of the faculty, elected by a vote of all the members.

### **Degrees**

Upon nomination by the faculty, the Bachelor's degree is conferred by vote of the Council at the annual commencement upon students who have completed the requirements as to courses, hours, and grades to the satisfaction of the faculty; have paid to the treasurer all college fees and other college charges; and have returned all books belonging to the library. No degrees are conferred except after at least one year in residence.

### **Requirements for graduation**

The minimum requirement for graduation in arts or science is the completion of 128 semester hours, or 64 year hours; the implication being that an average of 16 year hours will be taken during each of the four years. The consent of the Dean must be secured by students who are candidates for a

degree desiring to carry less than 16 hours or more than 18 during any one year. But every student, in order to be graduated, must have attained a minimum grade of C in at least one-half the number of hours required for graduation.

### **Grades**

The passing mark is 75 (D). In case of students transferring from other colleges which have a passing mark considerably lower than 75, the right is reserved to refuse to accredit courses passed at such a grade. The year mark in each subject is the average of the marks for the first and second semesters. The numerical equivalents of the letters used are as follows: A (high distinction; given to the few whose work may be considered as approximately the best that can be expected of any student), 95-100. B (superior work, plainly above the average), 90-94. C (average work), 80-89. D (below average but above passing), 75-79. E (below passing; a conditional failure), 60-74. F (failure), below 60.

A student obtaining a final grade of E (in June) may take a make-up examination in September, failing to pass which he must, if the course is required, repeat it the following year. A student receiving a grade of E in the first semester may have an opportunity to remove the condition by taking a make-up examination about three weeks after the beginning of the second semester.

If any student fails (i. e., secures a grade of F) in eight hours or more in any semester, he may be dropped from college.

A student taking a make-up examination is required to pay a fee of three dollars for each such examination, these fees to be allowed to accumulate and when amounting to a sufficient sum to be used as a loan fund.

Exemptions from final examinations are granted to those students in full courses (i. e., three- or four-hour courses) who maintain grades of A or B; but all students are required to take the mid-year examinations. The exemptions are announced at the last recitation before the final examinations.

No student may resign from a class in which he is registered without the consent of the Dean.

No marks are given out by instructors.

### **Reports; Warnings; Probation**

A report of scholarship is sent to every student's parents or guardian at the close of each semester and at such other times as the Dean may think expedient. At the middle of each semester warnings of low scholarship are issued, a copy of which is sent both to the student and his parent. If a student who has been warned fails to improve, he may be placed on probation for the remainder of the semester. If his attendance or scholarship continue unsatisfactory, the Dean may recommend to the Administrative Board that he be required to withdraw from college.

Probation, whether for attendance, deportment, or scholarship, implies (1) that the student may be absent only for extraordinary reasons, the reasonableness of which is to be judged by the Committee on Absences, (2) that his conduct or scholarship must show immediate improvement, (3) that during his probation he may not represent the college in any public function.

### Absences

A student is expected to attend *every* college exercise assigned to him, unless prevented by imperative reasons. No cuts are allowed. To cover such cases as incidental illness, a student will not be penalized unless he has exceeded the following number of absences: each exercise of one hour a week, 1; of two hours, 2; of three hours, 3; of four hours, 4. If he exceeds that number, he is, unless the Dean otherwise decides, automatically placed on probation.

At the beginning of each week, reports of all absences incurred during the previous week in every class are posted, by classes, on the bulletin board. Students should see that these reports tally with the record of absences which they should keep for their own benefit, and any discrepancy should be first reported to the instructor, who will, if necessary, give the student a written correction to be taken to the registrar.

No absences are cancelled or excused by officers of instruction, although they will be glad to hear an explanation of the absence.

All absences incurred during the day immediately before or following a vacation or recess are counted double.

In case of conflict of classes, prescribed work takes precedence over elective, and studies of an earlier year over those of a later.

# Departments of Instruction

*The right is reserved to omit any course provided the enrollment proves not large enough to permit its being conducted.*

## ART

ART 1. *Appreciation and History.* A series of lectures and discussions on art and its modes of expression during the various periods of history and civilization, the subject being treated from the viewpoint of appreciation rather than from merely historical accuracy.

*Two hours a week throughout the year.* MR. OLMSTED.

ART 15. *Theory and Practice of Teaching Art.* Lectures and discussions outlining the work in art education in elementary and intermediate schools, with such practical work as is necessary to develop the ideas brought out in the theory of the course. Some of the practical work may be done in the Art School of the Albright Art Gallery.

*One hour a week throughout the year.* MR. JACOBS.

## ASTRONOMY

ASTRONOMY 1. The object of this course is to give the student a general knowledge of descriptive and physical astronomy, with special reference to its cultural and practical aspects. It will include a direct study of the planets and the constellations by the aid of the telescope. No previous mathematical training is required.

*Lectures and recitations, two hours; observational work, two hours. Credit, three hours.* MR. PIPER.

## BIBLIOGRAPHY

BIBLIOGRAPHY 1. This course is intended to supplement every course in college and to develop an ability, through frequent example and reference, to command the literature on any subject. The course covers: general, national, trade, subject bibliography; the latter being divided into: language and literature, nine periods; history, economics, government, and sociology, fourteen; science and mathematics, six; education, philosophy, and art, eight.

Open to all students; required of Library Science students expecting to take the full course.

*Two hours a week throughout the year.* A cooperative course, under the direction of DR. SHEARER.

## BIOLOGY

BIOLOGY 1. *Botany*. A general course in morphological, physiological, and systematic botany, including an elementary study of the problems of cytology, reproduction, and evolution.

*Two lectures or recitations and two laboratory periods of two hours each, weekly, throughout the year; four hours' credit. Required of pre-medical freshmen.* ASST. PROFESSOR SHADLE.

BIOLOGY 2. *Zoology*. A general survey of the animal kingdom, with detailed study of type specimens in the laboratory. Particular emphasis is placed upon the gradual attainment of perfection in the animal body, as well as the adaptation of the animal to its environment. The economic importance of the various groups is also considered.

*Two lectures or recitations, and two laboratory periods of two hours each, weekly, throughout the year; four hours' credit. Required of pre-medical sophomores.* ASST. PROFESSOR SHADLE.

BIOLOGY 4. *Physiology*. This course is devoted mainly to laboratory work, in which special experimental problems are worked out in nerve and muscle, circulation, respiration, heat-regulation, and the physiology of exercise. Part of the course is devoted to determinations upon circulation and respiration in animals, with the preparation of graphic records. Opportunity for undertaking research is offered to properly qualified students.

Prerequisite: Biology 2.

*Three recitations and four hours laboratory work, weekly, throughout the year; five hours' credit.*

BIOLOGY 5. *Technique*. (Offered 1920-21). The theory and practice of collection, preservation, and preparation of biological material for laboratory purposes. The fixation, dehydration, embedding, cutting, staining, and mounting of material for microscopic examination is discussed, with opportunity for considerable practical experience. This course is primarily for teachers, or for those preparing to teach biology. The number in the course is limited to four.

Hours and credit to be arranged by personal interview. ASST. PROFESSOR SHADLE.

BIOLOGY 6. *Comparative anatomy of vertebrates*. (Offered 1920-21). A detailed comparative study of the organs and systems of organs in types of the various classes of vertebrates, with a view to the better understanding of human anatomy as well as the acquisition of skill in dissection and demonstration of structures.

Prerequisite: Biology 2.

*Two laboratory periods of two hours each, and one hour of lecture or recitation per week, throughout the year. Three hours credit.* ASST. PROFESSOR SHADLE.

## CHEMISTRY

CHEMISTRY 1. *Inorganic*. No previous knowledge of chemistry is required, but those who have already studied the subject in high school or elsewhere will be given an opportunity to do advanced work.

Text-Book: Newell's Inorganic Chemistry for Colleges.

*Two recitations or lectures, weekly throughout the year. Required of pre-medical freshmen.* PROFESSOR SY AND ASSISTANT PROFESSOR BROWN.

CHEMISTRY 1a. *Laboratory*. The entire first semester and a part of the second are devoted to experiments in general inorganic chemistry, including the preparation of some typical inorganic compounds. The latter part of the second semester is given to elementary qualitative analysis, beginning with a study of the reactions of the various metallic elements and the compounds used in their detection, following this by the practical application of the knowledge thus gained to the detection of the metallic ions in various "unknown" solutions. Advanced work for those who have had laboratory experience will include qualitative, quantitative, and spectroscopic analysis.

*Two laboratory periods of two hours each, weekly, throughout the year. Chemistry 1 and 1a, together: four hours' credit.* ASSISTANT PROFESSOR BROWN.

CHEMISTRY 2. *Organic*. The chemistry of the hydrocarbons and their derivatives, both of the aliphatic and aromatic series. Special attention is given to the chemistry of the fats, proteins, and carbohydrates.

Text-book: Haskin's Organic Chemistry.

*Two recitations or lectures each week throughout the year. Required of pre-medical sophomores.* PROFESSOR SY AND ASSISTANT PROFESSOR BROWN.

CHEMISTRY 2a. *Laboratory*. The work consists of a study of some of the characteristic organic transformations, and the preparation of some of the typical organic compounds together with the reactions for their detection.

Prerequisite: Chemistry 1.

*One laboratory period of two hours throughout the year. Chemistry 2 and 2a, together: three hours' credit.* ASSISTANT PROFESSOR BROWN.

CHEMISTRY. 3. (a). *Qualitative Analysis*. In this work the student is given a training in the detection of the metallic elements and acid radicals according to the usual schemes.

Text-book: Professor Sy's Notes on Qualitative Analysis.

*Three sessions of two hours each, weekly, during the first semester; three semester hours credit.*

(b). *Volumetric Analysis*. Each student makes his own volumetric solutions and uses them in the analysis of such substances as are likely to be met in the work of an analytical chemist.

Text-book: Schimpf's Essentials of Volumetric Analysis.

*Two hours a week throughout the year.* PROFESSOR SY.

CHEMISTRY 4. *Quantitative Analysis*. Work is begun by the gravimetric methods for the determination of the commonly occurring elements and radicals, also the complete analysis of various minerals.

Text-book: Cummings and Kay's Quantitative Analysis.

*One recitation each week and six hours laboratory work, weekly, throughout the year; four hours' credit.* PROFESSOR IRONS.

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[In the Chemistry Course, given for the present under the direction of a separate faculty, many opportunities for specialization are offered in sanitary, industrial, and physiological chemistry, any of which may be credited toward a B. S. degree. For further information and description of these courses see Bulletin "Courses in Chemistry."]

## COMMERCIAL SUBJECTS

*Problems and Methods in the Teaching of Commercial Subjects in the Intermediate and High Schools*. Conferences and discussions.

*One hour a week throughout the year.* MR. WEAVER.

## ECONOMICS

ECONOMICS 1. *General Economics*. A study of the leading principles of economic science, with some applications to modern industrial conditions. Study of text-book and of assigned collateral reading is the basis of the work; discussion of this matter in class is supplemented by occasional lectures. A thesis is required.

*Three hours a week throughout the year.* MR. WHITNEY.

ECONOMICS 2. *Labor Problems*. (Offered 1920-21.) A brief survey is made of the industrial revolution and of the development of the factory system in both Europe and the United States, followed by a study of the history of organized labor, its policies and methods. Legislation and questions affecting labor will be studied, with a consideration of such phases of socialism as bear directly on the subject. Discussion of text-book and assigned reading. At least one thesis required.

Prerequisite: Economics 1, or its equivalent.

*Two hours a week throughout the year.* MR. WHITNEY.



## EDUCATION

[The Buffalo Superintendent of Schools gives the courses in education, as well as the other courses designed more especially for teachers, his cordial endorsement.]

[EDUCATION 1. *Primary Aims and Methods.* This course treats of the principles of teaching with special reference to children of the primary school and is planned to meet the practical needs of teachers of the first six grades. Emphasis will be laid throughout the course upon the establishment of right habits of study and work in the beginnings of education with discussion of methods of accomplishments. Everything pertaining to general control or discipline of a class will be discussed: the organization of the class, group teaching, individual teaching, daily program of work. Throughout the course, plans of work which have actually succeeded with children rather than theories will furnish the basis of discussion.

*One hour a week throughout the year (or during the second semester.)*  
MISS LEWIS.]

[EDUCATION 2. *Principles of Elementary Education.* This course is planned wholly to meet the needs of supervisors and principals. It will involve a scientific study of the aims and methods advocated by leading educators and a critical examination of the work of modern schools which are foremost in demonstrating the newer ideals in education. Among the subjects to be discussed are: Curriculum of the Elementary School; Courses of Study; Programs; Teachers' Meetings; Parents' Meetings.

*One hour a week throughout the year (or during the second semester.)*  
MISS LEWIS.]

EDUCATION 3. *Industrial Arts.* This course is designed for industrial arts work in elementary schools, and will consist of demonstrations of the construction and use of ordinary tools; the fundamental principles underlying the big industries; the historical background, and the value of industrial arts to clarify ideas rather than as an end in itself. It will offer lectures and demonstrations, opportunity for discussion, and actual practice work in a well equipped shop.

*One hour a week throughout the year.* MISS LAWTON.

EDUCATION 4. *History of Education.* Beginning with a brief summary of the chief points of interest presented by Greek, Roman, and medieval education, this course devotes the greater part of attention to the history of education in the United States, studying in detail the life and work of a number of American educators and several of the most important modern experimental schools. Collateral reading.

*One hour a week throughout the year.* MR. HEAD.

EDUCATION 5. *Problems of the Intermediate School.* This course is intended to give teachers a general view of the whole situation and to act as a prepa-

ration for the more extensive and specialized courses in the teaching of the various subjects in the intermediate schools. It is conducted so far as possible in seminar fashion, involving lectures and research work. Each student prepares at least one thesis on some special phase of the intermediate school, presenting it to the class for critical discussion.

*One hour a week throughout the year.* (The class was organized at the beginning of the second semester of 1918-19, so that for the entire course credit for three semesters will be given.) MR. PILLSBURY.

EDUCATION 6. *Philosophy of Education.* (Offered 1920-1921). This course, intended primarily for teachers or social workers, will endeavor to show the intimate connections which exist or should exist between our educational theory on the one hand, and our current conceptions in social science, government, economics, etc., on the other. That is, our educational conceptions will be studied both as the product of past conditions and as the source for the future development and direction of society. Democracy, both as an ideal and as a growing reality, will be considered in detail in its connection with education.

*Three hours a week throughout the year.* PROFESSOR LEARY.

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[For methods in teaching various subjects, see courses numbered 15 in the departments of Art, English, French, Mathematics, Physics (for general science), and Commercial Subjects.]

## ENGLISH

ENGLISH 1. *Rhetoric, composition, and an outline of the history of English literature.* Constant drill in theme-writing.

*Three hours a week throughout the year. Required of all freshmen.* MR. SINE.

ENGLISH 2. *Reading and composition.* A continuation of English 1, with practice in theme-writing, examination of models of style, and discussion of topics of the day.

Prerequisite: English 1.

*Two hours a week throughout the year. Required of all sophomores.* PROFESSOR GOETZ AND MR. SINE.

ENGLISH 3. *Great English poets of the nineteenth century.* Wordsworth, Keats, Shelley, Byron, Tennyson, Browning. Conferences, themes, collateral reading. A thesis is required.

Prerequisite: English 1.

*One hour a week throughout the year.* MR. RHODES.

[ENGLISH 4. *The Essay in the Eighteenth Century.*

Prerequisite: English 1.

*One hour a week throughout the year.* PROFESSOR GOETZ.

[ENGLISH 5. *Advanced Composition.*

Prerequisite: English 1.

*One hour a week throughout the year.* PROFESSOR GOETZ.]

ENGLISH 6. *Scientific Terminology.* The object of this course is to familiarize students with the derivation and composition of the commoner scientific terms.

Prerequisite: English 1.

*One hour a week throughout the year. Required of pre-medical sophomores.* PROFESSOR GOETZ.

[ENGLISH 7. *The Essay in the Eighteenth Century.* Extension of English 4, with special attention to Lamb, Hazlitt, and Stevenson.

Prerequisite: English 1.

*One hour a week throughout the year.* PROFESSOR GOETZ.]

ENGLISH 8. *Shakspeare.* Rapid reading of all the plays, with careful study of one of the tragedies.

Prerequisite: English 1.

*One hour a week throughout the year.* PROFESSOR GOETZ.

ENGLISH 9. *The chief American poets.* Bryant, Poe, Emerson, Longfellow, Lowell, Holmes, Whittier, Aldrich, Lanier, Whitman, and the leading contemporary poets.

Prerequisite: English 1; or its equivalent.

*One hour a week throughout the year.* MR. RHODES.

[ENGLISH 10. *The short story.* A reading course, to be supplemented by lectures or running comments on the beginnings and development of the short story as a literary form, together with reports on stories specially assigned.

Prerequisite: English 1, or its equivalent.

*One hour a week throughout the year.]*

ENGLISH 11. *The Novel.* A reading course of seminar conferences. The novel in England and America considered as a developing literary form and as an interpretation of life. About thirty novels will be read.

Prerequisite: English 1.

*One hour a week throughout the year.* MR. RHODES.

ENGLISH 15. *Problems and Methods in the Teaching of English in Secondary Schools.* Conferences and discussions.

*One hour a week throughout the year.* MR. RHODES.

ENGLISH 18. *Debating.* (Offered in 1920-21.) A course combining theory and practice in debate, including brief-making and formal argumentation.

*One hour a week throughout the year.* MR. WACHTER.

ENGLISH 19. *An elementary course in public speaking.* Introduces the work of English 20.

*One hour a week throughout the year. Required of Arts Freshmen.* MR. WACHTER.

ENGLISH 20. *Public Speaking.* A study of the principles of oral expression through platform interpretation of passages from great orations, together with practice in the preparation and delivery of brief, original addresses.

Prerequisite: English 19.

*One hour a week throughout the year.* MR. WACHTER.

## FRENCH

(The courses in in French are conducted largely according to the Direct Method, French being almost entirely the language of the class-room.)

FRENCH 1. *Elementary.* From the beginning of the course: reading of easy texts, conversation on the texts read, reproduction from memory of the texts read; translations in both languages, dictations, easy compositions.

*Three hours a week throughout the year.* MME. CASASSA.

FRENCH 2. (*Intermediate*). Continuation of French 1, including reading of standard and (for pre-medical students) scientific texts; conversation on texts read; dictations, more advanced composition.

Prerequisite: French 1.

*Three hours a week throughout the year.* MR. AND MME. CASASSA.

FRENCH 3. (*For pre-medical students*). Constant practice in speaking and writing French. Advanced reading on scientific subjects. Discussions on the subjects read, and written essays and oral discussions of illustrated lectures on scientific subjects to be given by the instructor.

Prerequisite: French 2.

*Three hours a week throughout the year.* MR. CASASSA.

FRENCH 4. *French literature from its beginning to the end of the sixteenth century.*

Reading texts to be selected during the year.

Prerequisite: French 2, or its equivalent.

*Three hours a week throughout the year.* MR. CASASSA.

FRENCH 5. *French literature in the seventeenth and eighteenth centuries.*  
(Offered in 1920-21).

Reading texts to be selected during the year.

Prerequisite: French 4.

*Three hours a week throughout the year.* MR. CASASSA.

FRENCH 6. *French Literature in the nineteenth century.*

Prerequisite: French 5.

*Three hours a week throughout the year.* MR. CASASSA.

FRENCH 15. *The Theory and Practice of Teaching French*, especially in the high and intermediate schools. Stress will be laid on those points which will enable the teacher to present the subject matter in the most effective and interesting-creating manner. Standardization of the first year; aids in language teaching; the best available grammars and text-books, and ways and means of using them most advantageously, actual teaching conditions being made the basis of all discussions. French for household science and commercial uses.

*One hour a week throughout the year.* MISS CHAMOT.

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The instructors in French, together with another person, have offered two cash prizes for excellence in French composition. They are:

(1) A prize of twenty dollars for the best essay on a scientific subject. Candidates for this prize are free to choose the subject of their thesis from among a number which will be announced. Any member of French 3 may compete, but the right is reserved to decline to award the prize if in the opinion of the judges no essay of sufficient worth is submitted.

(2) A prize of twenty dollars for the best essay on a literary subject, the theme to be chosen from among a number which will be announced. This prize is open to members of both French 4, 5, and 6, but here also the right is reserved to withhold the award.

Further conditions, including the date when competing essays must be submitted, will be announced in ample time.

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In the French department there has been organized a Cercle Français, membership in which is open to properly qualified students.

## GEOLOGY

**GEOLOGY 1.** *General earth science.* This course includes a synopsis of the leading facts and principles of physiography and geology, the study of common rocks and minerals, meteorological instruments and their uses, the interpretation and construction of maps. Field work will include studies of the phenomena of dynamical, structural, and historical geology at Niagara Falls and many other points along the Niagara frontier.

*Two recitations or lectures; field work, when the weather permits (at hours to be arranged), weekly, throughout the year. Three hours credit.* MR. PIPER.

## GERMAN

**GERMAN 2.** (*Intermediate*). The first semester is devoted primarily to the reading of easy modern prose and to rapid review of grammar. Pre-medical students are given practice in scientific subjects. The second semester is given to the reproduction of ordinary narrative English into German, and to original composition and conversation based on texts read.

*Three hours a week throughout the year.* MR. SIEKMANN.

**GERMAN 3.** (*Advanced German*). This course is conducted almost altogether in German and includes constant practice in speaking and writing German. It includes lectures and collateral reading, and is mainly devoted to the reading and interpretation of selections from Lessing, Goethe, Schiller, Heine, etc.

Prerequisite: German 2, or its equivalent.

*Three hours a week throughout the year.* MR. SIEKMANN.

## GOVERNMENT

**GOVERNMENT 1.** *Comparative Modern Government.* (Offered 1920-21). A study of the government of the leading countries, with special attention to the methods of legislation and the location of political control.

*Three hours a week throughout the year.*

## GREEK

**GREEK 1.** *Course for beginners.* Early attention to developing ability to read simple prose at sight. (Not open to those who offer elementary Greek for admission).

*Three hours a week throughout the year.* PROFESSOR GOETZ.

**GREEK 2.** *Course in prose.* (Offered 1920-21). Xenophon and Herodotus (selections).

*Three hours a week throughout the year.* PROFESSOR GOETZ.

## HISTORY

HISTORY 1. *European history from Charlemagne to Frederick the Great, 800-1740.* This course will deal with the main lines of the development of Europe and will furnish a background for the Europe of the nineteenth century. It includes Charlemagne's empire, feudalism, medieval life, the papacy, Mohammedanism, the crusades, the Renaissance, the Reformation, the wars of religion, the rise of modern states, discoveries and colonization. Lectures, text-book, collateral readings, recitations. Particular attention is given to the method of study and the use of materials by the student.

This course is the fundamental one in the department, being the prerequisite for the other courses in European and English history.

*Three hours a week throughout the year.* DR. SHEARER.

HISTORY 2. *European history from 1740 through 1870.* A continuation of History 1, the first semester opening with the accession of Frederick the Great and closing with the fall of the Napoleonic empire, including a somewhat detailed study of the French Revolution and Empire. The history of Europe from 1815 to 1871 forms the work of the second semester, special attention being given to the unification of Italy and Germany, and to major political changes in France. Text-books, lectures, and quizzes, and reports on assigned topics.

Prerequisite: History 1.

*Three hours a week throughout the year.* PROFESSOR PARK.

HISTORY 3. *European history from 1871 to 1918.* (Offered 1920-21). The diplomatic background of the Great War, together with significant features of its conduct. Considerable collateral reading.

Prerequisite: History 2.

*Two hours a week throughout the year.* PROFESSOR PARK.

HISTORY 4. *Latin-American History and Conditions.* The Spanish colonial system; the wars for liberation, with biographies of the leaders; a synopsis of the later political and economic development of the republics, and present conditions and opportunities.

Considerable collateral reading; lectures.

*Two hours a week during the second semester.* PROFESSOR PARK.

[HISTORY 5. *History of the United States, 1740-1865.* This course deals with the formation of the United States, tracing in the first semester the course of the Revolution, the creation of a federal government, and the establishment of an independent federal policy; in the second semester, the rise of Northern and Southern sectional antagonism, culminating in the Civil War and the triumph of the Union.

*Three hours a week throughout the year.* PROFESSOR PARK.]

[HISTORY 6. *History of the United States, 1865-1918.* A continuation of History 5, emphasizing especially political and economic evolution and foreign relations, including America's part in the peace treaty of 1919.

Prerequisite: History 5.

*Three hours a week during the first semester.]*

HISTORY 8. *English History.* (Offered 1920-21). This course is designed to give an outline of the history of England for those who have had a course in general European history, either in school or college. It will indicate the chief constitutional, political and social features of English history, with extensive reference to the literature and an intensive study of a selected topic in each semester.

Prerequisite: History 1.

*Two hours a week throughout the year.* DR. SHEARER.

HISTORY 10. *Regional history.* Lectures and collateral reading on the history of the Niagara frontier from the days of the French explorations to the present.

*One hour a week during the first semester.* PROFESSOR PARK.

## ITALIAN

ITALIAN 1. (*Elementary*). Fundamental principles of grammar phonetics, with close attention to pronunciation and expression. Composition and oral drills are continued throughout the year, alternated with reading of simple texts, dictation, simple conversation, and memorizing of short extracts.

*Three hours a week throughout the year.* MR. DI BARTOLO.

ITALIAN 2. (*Intermediate*). Review and continuation of the study of grammar; reading and critical study of modern and classical authors; composition and conversation based upon the texts read; collateral reading, reports on assigned topics, letter-writing.

Prerequisite: Italian 1 or its equivalent.

*Three hours a week throughout the year.* MR. DI BARTOLO.

[ITALIAN 3. *History of Italian literature.* A series of lectures (delivered in English) to include in outline the whole range of Italian literature from the close of the middle ages to modern times.

Lectures, reports, collateral readings.

*One hour a week throughout the year.* MR. DI BARTOLO.]

ITALIAN 4. *Dante.* A literary and critical study, in English, of Dante's works, particularly the *Divina Commedia* and *Vita Nuova*, and of Dante's place in the literature of the Italian Renaissance.

*One hour a week throughout the year.* MR. DI BARTOLO.



## LATIN

LATIN 1. *Reading at sight*; selections from Cicero, Livy, Vergil, Ovid, Horace. This course is designed for those who have completed either three or four years' work in Latin in secondary schools. Ability to read at sight will be the primary object.

*Three hours a week throughout the year. Required of Arts freshmen.*  
PROFESSOR GOETZ.

LATIN 2. (Offered 1920-21). First semester: Tacitus (Agricola, and selections); second semester: selections from Latin poets (Horace, Catullus, and others).

Prerequisite: Latin 1, or its equivalent.

*Three hours a week throughout the year.* PROFESSOR GOETZ.

## LIBRARY SCIENCE

LIBRARY SCIENCE 1. *Libraries and Library Work*. This course is designed to introduce the subject to college students, to teachers who may expect to take charge of school libraries, to those in library work whose training has been practical and who wish to gain a view of the field as a whole. By arrangement with the Buffalo Public and the Grosvenor libraries the course may be supplemented by work in the library training classes and by practical work, with compensation. The course includes an outline of the history of libraries and the library movement; library associations; literature of library work; the administration; ethics and relations with the public; the technical processes of cataloguing, classification, and filing; book-selection, periodicals, bibliography, and ordering; reference work; charging; children's work, including storytelling; school work; government documents; rules, budgets, and finances; binding; shelving.

*Three hours a week throughout the year, with lectures by experts in different subjects.* DR. SHEARER.

LIBRARY SCIENCE 2. *Cataloguing*. (Offered 1920-21). Eight hours a week in the cataloguing department of the Buffalo Public Library for the first semester, and eight hours a week in the Grosvenor Library for the second semester, for instruction in classifying, cataloguing, subject headings, accessioning, and filing.

*Four hours credit for Library Science students; not open to other students.*  
MISS CHANDLER, MISS FUCHS.

LIBRARY SCIENCE 3. *Reference Work*. (Offered 1920-21). Four hours a week in the reference and open-shelf departments of the public libraries, with extended investigations of reference books, numerous reference problems,

and actual contact with the users of the library. This course must be taken in connection with Bibliography 1.

*Two hours credit for Library Science students.* DR. MORGAN, MR. SHEPARD.

LIBRARY SCIENCE 4. *Order Work.* (Offered 1920-21). Four hours a week in the order departments of the public libraries, with actual handling of orders.

*Two hours credit for Library Science students.* MISS LANSING, MISS NORTON.

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[The above courses will also be arranged for full time for the summer session (amounting to twelve weeks in the case of these courses).]

In 1920-21 additional elective courses in Loan Desk and Circulation (two hours); School Library Work (two hours); Children's Work (three hours); and Book Selection (one hour) will be arranged to meet the needs of full Library Science course students.]

## MATHEMATICS

MATHEMATICS 1. (a) *Algebra and Trigonometry.* A brief review of elementary algebra, including quadratic equations, series, and logarithms; trigonometric functions, formulae, identities, equations, general values of angles, inverse functions, solutions of triangles, and applications.

*Four hours a week during the first semester.*

(b) *Plane Analytic Geometry.* The straight line, the circle, transformation of co-ordinates, the parabola, the ellipse, the hyperbola, tangents and normals, polar co-ordinates. The concept of functionality is made the unifying element in both courses (a) and (b).

*Four hours a week during the second semester. Required of all freshmen.* PROFESSOR SHERK.

MATHEMATICS 4. *Advanced work in Plane Analytic Geometry; Solid Analytic Geometry.* A continuation of Mathematics 1 (b). In Solid Analytic Geometry the topics studied are the plane, the straight line, the sphere, cylinders, cones, surfaces of revolution, transformation of co-ordinates, spherical and cylindrical co-ordinates, quadric surfaces, and ruled surfaces.

*Two hours a week throughout the year.* PROFESSOR SHERK.

MATHEMATICS 5. *Calculus: differential and integral.* Theory of limits, derivatives of algebraic functions with applications, anti-derivatives of simple algebraic functions, differentials, derivatives of transcendental functions, successive differentiation and integration, definite integrals and applications to geometry and mechanics, special methods of integration, functions of two or more variables, multiple integrals, infinite series, approximate integration.

Course 4 should either precede or parallel this course. Course 1 is prerequisite.

*Three hours a week throughout the year.* PROFESSOR SHERK.

MATHEMATICS 6. *College Algebra*. (Offered 1920-21). A rapid review of elementary algebra, series, permutations and combinations, determinants, and a more detailed study of the theory of equations.

*Two hours a week throughout the year.* PROFESSOR SHERK.

MATHEMATICS 7. *Analytic Mechanics*. (Offered 1920-21). Motion of a point, velocities and accelerations in the rigid body, relative motion, centers of mass, momentum, force, energy, statics of the rigid body, attractive forces, kinetics.

Prerequisites: Physics 1, Mathematics 4 and 5.

*Three hours a week throughout the year.* PROFESSOR SHERK.

MATHEMATICS 15. (a) *The Teaching of Elementary Algebra*. The content of the course will depend upon the mathematical training and teaching experience of the members of the class. The object is to secure a thorough knowledge of the subject matter, a notion of the nature of algebra, an acquaintance with approved methods of presenting the various topics to children, and a broad view of what others are doing in this field. Each member will be required to write a paper on an assigned topic.

*One hour a week throughout the year.* PROFESSOR SHERK.

(b) *The Teaching of Geometry*. (Probably offered in 1920-21)] PROFESSOR SHERK.

## MECHANICAL DRAWING

Examples for practice in the use of instruments and problems in geometrical construction, conic sections and orthographic projections. Problems in orthographic, isometric, and oblique projection, development and intersection of surfaces; spirals, helices, screw-threads and bolt-heads.

*Two periods of two hours each, weekly, throughout the year.* MR. HOPKINS.

## PEDAGOGY

(See Department of Education).

## PHILOSOPHY

PHILOSOPHY 1. *History of Philosophy*. This introductory course in philosophy will treat of the gradual evolution of the modern points of view in philosophy, as related to the evolutions of the institutions in western Europe. It will not be a mere explanation of successive philosophical systems, but the presentation of the philosophy of each period as an expression of the contem-

poraneous social, political, and religious conditions of the time. The evolutionary point of view will be maintained throughout and the continuity of the subject emphasized.

*Three hours a week throughout the year.*

PHILOSOPHY 2. *Ethics (first semester) and Metaphysics (second semester).* (Offered 1920-21). In the first semester the endeavor will be both to present the evolutionary point of view as regards the origin of morality, and also to arouse a vital conviction of the fundamental importance and reality of moral problems and their solution. The contributions of both primitive times and the more recent periods of European history will be traced in the present situation, and the objective point of view will be maintained throughout. In the second semester, the general field of metaphysics will be considered under the four heads of: The content of consciousness, The external world, Mind and matter, Other minds. The course will follow up and develop in greater detail the problems raised in Philosophy 1, comparing the contributions of various historic systems under the four headings mentioned.

Prerequisite: Philosophy 1.

*Three hours a week during the second semester.*

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[See also Education 6—*Philosophy of Education.*]

## PHYSICS

PHYSICS 1. *General Physics.* The work of the first semester is devoted to mechanics, molecular physics, and heat; the second semester, to electricity, sound, and light. The course aims at a careful development of the subject from the modern point of view, giving the student an introduction to the scientific method and enabling him to lay a good foundation for further study along either technical, professional, or pure science lines.

Prerequisite: Mathematics 1.

*Three lectures or recitations and two laboratory exercises of two hours each, weekly, throughout the year; five hours credit. Required of science and pre-medical sophomores.* PROFESSOR MOORE AND ASSISTANTS.

PHYSICS 1-a. *Sound and Light.* (Not given after 1920-21). *Two lectures or recitations and one laboratory exercise of two hours, weekly, throughout the year. Required (1919-20 and 1920-21) of pre-medical sophomores.* PROFESSOR MOORE AND ASSISTANTS.

PHYSICS 2. *Electricity and Magnetism.* (Offered 1920-21). This course offers an opportunity for a more detailed study of the phenomena of electricity and magnetism, and is accompanied by laboratory practice in electrical measurements.

Prerequisite: Physics 1.

*Two lectures or recitations and two laboratory exercises of two hours each, weekly, throughout the year; credit, four hours.* PROFESSOR MOORE.

PHYSICS 3. *Advanced Laboratory Course*. (Offered 1920-21). Special laboratory problems are assigned to the students in this course, their entire time being spent in the laboratory.

Prerequisite: Physics 2 and Mathematics 5 (Calculus).

*Credit, three hours.* PROFESSOR MOORE.

PHYSICS 15. *Theory and Practice of Teaching General Science*. This course is designed to fit teachers who have knowledge of physical, biological, and geological sciences for teaching general science in the seventh, eighth, and ninth grades. Methods of presenting the subject matter; an outline of the subject matter; reference books; correlation of science with other subjects; note-book work; laboratory equipment; relation of general science to high-school science.

Prerequisite: High-school physical, biological, and geological sciences.

*One hour a week throughout the year.* MR. THOMAS.

## PHYSIOLOGY

(See Department of Biology).

## PSYCHOLOGY

PSYCHOLOGY 1. *General Psychology*. This course is intended to develop a working understanding of the modern objective field of psychology, as well as to furnish a background for the more detailed course in Educational Psychology. The so-called "dynamic" point of view will be maintained throughout. A detailed presentation of the original nature of man will be used as a basis for the further discussion of learned and skillful abilities, thinking, and doing. The social instincts will be considered in their function as the basis of character and social activity. Occasional experiments will be made to bring out fundamental points. Lectures, recitations, reports and collateral reading.

*Three hours a week throughout the year.* PROFESSOR LEARY.

PSYCHOLOGY 2. *Educational Psychology*. (Offered 1920-21). This course will give a thorough treatment of psychology with reference to education, covering (1) original nature and the inherited foundations of intellect, morals, and skill, (2) the laws of learning, the improvement and the deterioration of mental functions, (3) individual differences, the influence of sex, race, immediate ancestry, maturity, and training. Emphasis will be placed on the use of psychology in teaching and in the problems of curricula and method. The use of statistics and the representation of facts of human nature in diagrams will form a part of the course.

*Three hours a week throughout the year.* PROFESSOR LEARY.

Prerequisite: Psychology 1.

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[See also Education 6—*Philosophy of Education*.]

## **PUBLIC SPEAKING**

(See Department of English)

## **RUSSIAN**

RUSSIAN 1. An elementary, introductory study of the language. Grammar and beginning reading. Sketch of the literature.

*Three hours credit a week throughout the year.* PROFESSOR LEARY.

## **SCIENCE—METHODS OF TEACHING**

(See Department of Physics)

## **SOCIOLOGY**

SOCIOLOGY 1. This course, intended primarily for present or prospective teachers and social workers, will furnish a background for more special studies in the field to be offered later. It will trace in broad outline the nature and growth of society, different types of social organization, social inheritance and the conception of progress, etc. Throughout the course objective and practical considerations will outweigh the purely theoretical, and the present problems of American society will be constantly under consideration. The course will lead in the second semester to a consideration of such problems as the composition of American society, the status and the inheritance of the immigrant, racial and class conflicts and their background, the forces for Americanization, etc. Education as a factor in social progress will be treated with considerable detail.

*Three hours a week throughout the year.* PROFESSOR LEARY.

## **SPANISH**

(The courses in Spanish are conducted largely according to the Direct Method, Spanish being, as far as possible, from the beginning the language of the classroom).

SPANISH 1. *Elementary grammar and reading of classical and modern Spanish.* This course includes a practical training in the language.

*Three hours a week throughout the year.* MR. SOTO.

SPANISH 2. *Advanced grammar; commercial Spanish.* Constant practice in conversation, reading, and composition.

Prerequisite: Spanish 1.

*Three hours a week throughout the year.* MR. SOTO.

# General Information

## Fees

*Every* student on entering the college is required to pay a matriculation fee of \$5, which is not returnable. This fee is payable only once during the student's connection with the college and is not required of students transferring from another institution if evidence is submitted that such a fee was paid in the former institution.

All fees for instruction and other items, shown in the following table, are payable in advance on or before the first day of each semester. In case payment is not made within two weeks the student is suspended until he is no longer in arrears. Absence due to such exclusion will be deducted from the student's allowance of absence. No student may receive a certificate of honorable dismissal until he has paid all dues to the college treasurer and returned all books to the library.

Matriculation .....	\$ 5.00
Tuition fee for all regular students (those carrying from 16-18 hours weekly) and for special students carrying 9 hours or more, each semester .....	65.00
Athletic fee (required of all regular students) each year .....	10.00
Breakage deposit (required of all students carrying 9 hours or more and of all students carrying any science) .....	7.00
Graduation fee .....	10.00
Laboratory fees, payable at beginning of first semester:	
Chemistry .....	15.00
Physics .....	10.00
Biology .....	10.00
Lockers are rented for—yearly .....	.50

**Fees Governing Special Students.** Special students are those taking less than 16 hours of work weekly. The fee is \$8 for each hour of instruction per week, with a minimum fee of \$10 (for a one-hour course); that is, for a course (such as English 1) occurring three hours a week, the fee would be \$24 a year; for a course such as Art 1 it would be \$16. In case, however, special students take work aggregating from 9 to 15 hours, inclusive, weekly, their tuition amounts to the same as that paid by regular students. For a semester course the charges are half those for a year course.

However, to teachers in the Buffalo School Department or in the Buffalo State Normal School, a discount is made of 25% from the rates for special students as above listed. That is, a course occurring two hours weekly would cost \$12 for the year; a three-hour course would cost \$18; but the minimum fee (for a one-hour course) is \$10.

**Refunds.** If, on account of serious illness or other sufficient reason, a student withdraws before the middle of a semester, one-half of all the fees he has paid (exclusive of the matriculation fee and fees for student activities paid through the college) will be refunded; but no refunds will be made under other circumstances, nor will any balance from breakage deposits be refunded unless called for before June 30.

## Scholarships

**State Scholarships.** New York State scholarships, of the value of \$100 a year, are awarded by the Commissioner of Education. Five such scholarships are awarded each county annually for each assembly district therein, and they are assigned to those five holders of college entrance diplomas in each assembly district who have completed the studies prescribed for such diplomas with the highest standings. The recipient may attend any approved college in the state, and will receive through the college of his choice \$100 a year for the four years of his attendance. The awards are made known about the middle of August each year. The University of Buffalo is among the institutions where these scholarships may be used.

**University Scholarships.** (1, 2, 3) According to the terms of the gift by which Townsend Hall became the property of the University, three scholarships in the Arts College are to be awarded in perpetuity to young women. These scholarships are known as (1) the Women's Educational and Industrial Union Scholarship, (2) the Fiske scholarship of household arts\*, and (3) the Founders' scholarship. The scholarships are of the value of \$130.

(4) The Buffalo City Federation of Women's Clubs established in 1909 the first scholarship for the future Arts College. In honor of the honorary president of the Federation, Mrs. John Miller Horton, it is known as the Katherine Pratt Horton scholarship, and became available to young women during the session of 1914-15. It is of the value of \$100.

(5) The Women's Investigating Club of Buffalo has established for young women a general University scholarship, the recipient being free to choose the department in which it may be applied. This scholarship is of the value of \$100 annually, and requests for information, as well as applications, should be addressed to the chairman of the committee, Mrs. Irene M. Servoss, 83 Claremont Avenue.

(6) The Pascal P. Pratt scholarship for men is given by Mrs. John Miller Horton in memory of her father, who was one of Buffalo's early and prominent benefactors and philanthropists, long interest in the education and welfare of young men and in the diffusion of popular education. This scholarship is of value of \$100.

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\*Until such time as work in household arts shall be established this scholarship is applied in the College of Arts and Sciences.



Except where otherwise mentioned, the faculty awards all scholarships, and requests for application blanks should be addressed to the Dean. All applications must be filed before July 1.

*Regulations in applying for scholarships.* Other circumstances being equal, scholarships are ordinarily awarded on a basis of standing in preparatory school. Accordingly, a transcript of marks for the last four years should be furnished, preferably on the form used by the College, together with a recommendation from the principal of the school last attended.

All scholarships lapse at the close of the college year.

It is expected that applicants for scholarship will be fully prepared to enter the course desired without conditions. A holder of scholarship aid who fails to maintain a grade as high as C in at least half the number of hours carried during the previous semester renders himself liable to lose the scholarship.

Any one of the following causes may prevent the consideration of an application, or cause the forfeiture of a scholarship already awarded: Evidence satisfactory to the committee that the aid is not needed; any breach of college discipline; evidence of repeated unnecessary expenditures; physical condition below the average.

## **ROOMS AND BOARD**

Rooms and board may be secured at reasonable rates near the University buildings. Information may be obtained at the office of Townsend Hall, and through the college department of the Young Men's and Young Women's Christian Associations.

## **FACILITIES FOR SELF-SUPPORTING STUDENTS**

The University encourages self-supporting students, but it cannot undertake to furnish employment. The student department of the Y. M. C. A. conducts an employment bureau, through which assistance is given to men in finding outside work.

## **STUDENT ACTIVITIES**

The faculties of the several departments are united in their desire to encourage those student activities which make for a more complete fellowship among the students and for a greater solidarity throughout the institution as a whole.

Athletics are controlled by the Executive Board of the Athletic Association. This board is composed of two student representatives from each of the departments of the University, together with three faculty members chosen from the Student Activities Committee, one of whom acts as faculty treasurer, and another as faculty manager.

The membership fee in this organization is ten dollars yearly, which is to be paid by all regular students to the college treasurer at the time of paying

the regular University fees. Upon the payment of this fee, the student receives from the Athletic Association a season ticket of admission to all University athletic events held in Buffalo.

Besides athletics, the undergraduate activities comprise a magazine, "The University Bison," musical clubs, including the University glee club, band and orchestra, dramatic club, the Y. M. C. A., etc. To supervise these and any other extra-curricular activities, there is an advisory faculty committee on student activities, composed of instructors from each of the departments.

### COMMITTEE ON STUDENT ACTIVITIES

Faculty of Medicine .....	Dr. C. C. Cott, Dr. Bentz
Faculty of Pharmacy.....	Mr. Hickman (Manager of Athletics), Dr. Lemon
Faculty of Chemistry .....	Professor Irons (treasurer)
Faculty of Law.....	Mr. Templeton
Faculty of Dentistry ..	Professor Pankow (secretary), and Professor Garretson
Faculty of Arts and Sciences .....	Professor Sy (chairman), Mr. Sine

## UNIVERSITY YOUNG MEN'S CHRISTIAN ASSOCIATION

The object of the University Young Men's Christian Association is the development of an "all round" manhood. It believes in promoting fellowship among all students, and desires to make itself helpful in every way possible. To this end it seeks to assist all students in finding suitable boarding accommodations, securing employment, and to provide social gatherings of the right kind.

The membership fee is nominal and the membership ticket entitles the holder to valuable privileges at the Central Young Men's Christian Association building, which is one of the finest association buildings in the world. By a special concession the rate for the use of the gymnasium and plunge is made very low to University students, in order that all may be able to secure the physical training so essential to fullest health and highest efficiency.

### COMMITTEE OF MANAGEMENT UNIVERSITY Y. M. C. A.

Faculty of Pharmacy.....	Dean Gregory (chairman), Professor Long
Faculty of Arts and Sciences.....	Dean Park (treasurer), Professor Sherk
Faculty of Medicine.....	Dr. Leonard, Professor Atwell
Faculty of Dentistry.....	Dean Squire, Professor Buell
Faculty of Chemistry.....	Professor Sy
Faculty of Law.....	Dean Alden
Executive Secretary.....	R. M. DeWitt

# Students 1919-1920

## FRESHMEN

- Bartoo, E. Carlotta, *Lackawanna*  
Bernhard, John J., *Nunda*  
Block, Marvin A.  
Chimera, Anthony J.  
Clark, William T.  
Conklin, Alice G., *Batavia*  
Conn, Robert W., Jr., *Snyder*  
Constantine, Walter E.  
Cummings, Glenn C., *Akron*  
Dake, Charles M., Jr.  
Davis, Leray J., *Setauket, L. I.*  
Day, Dorothy C.  
Deuchler, Marion M.  
DeWitt, Reginald M.  
Dominick, Mary L.  
Donson, Edward D., *Lockport*  
Dotterweich, Helen, *Olean*  
Douglass, Matthew M.  
Ferrari, Filiberto A. L.  
Fisher, Grant T., *Lackawanna*  
Fitzgerald, Thomas G.  
Fleck, Albert H., *Niagara Falls*  
Gelia, Thomas J., *Jamestown*  
Goergen, Sylvia M.  
Gramlich, Albert N., *Depew*  
Greenberg, Sherman  
Gustina, Francis J., *Waverly, N. Y.*  
Guthiel, Andrew W., *Rochester*  
Haft, Frank P.  
Handel, William H.  
Harris, Chas. E., *Elmira Heights, N. Y.*  
Heacock, Grace M.  
Hershiser, Marion E., *Kenmore*  
Hettesheimer, Carl W., *Brooklyn, N. Y.*  
Holmes, Margaret, *Orchard Park*  
Howard, William M.  
Hunt, Marion L., *Orchard Park*  
Jacobson, Jeanette  
Kadetsky, Alvin B.  
Kahn, Milton E.  
Keefe, Frank J., *Brocton, Mass.*  
Kenwell, Henry N., *Olean*  
Kevovetz, Mildred  
King, Clarence W.  
Klein, Maurice W.  
klein, Samuel  
Korn, John J., *Wilkes-Barre, Pa.*  
Kulowski, Jacob, *Lancaster*  
Kuppinger, Herbert A., *Brockport*  
Lavis, George A.  
Leone, Vincent D., *Dunkirk*  
Lintner, Elmer R.  
Loder, Margaret M.  
Lynch, Maxcy J.  
Mago, Eleanor W., *Tonawanda*  
Mehrhof, David  
Miller, George C.  
Munn, Carl A.  
Oyer, Demont, *Springville*  
Pantera, Anthony S.  
Pisa, Joseph J.  
Rasch, George A., *North Tonawanda*  
Reinhard, Melvin C.  
Rice, Sara K.  
Rivo, David  
Roizen, David B.  
Rosner, Edward L.  
Round, Natalie, *Kenmore*  
Scherer, Edward L., *Penn Yan*  
Schnitman, Sydney  
Schurr, Jacob L., *Clarence*  
Scofield, Maud B., *Cherry Creek, N. Y.*  
Serio, Thomas  
Shanley, Marion, *Westfield*  
Sheldon, Sarah C., *Hamburg*  
Spinnuzza, Joseph Y.  
Standart, H. Olive  
Sternberg, Emil  
Sterr, Anna M.  
Stoesser, Wesley C.

## FRESHMEN—Continued

Stoltz, Raymond R., <i>Jersey City, N. J.</i>	Welch, Ethan L., <i>Arkport</i>
Sullivan, Katharine E.	Whittlesey, Katherine C.
Swannie, George W.	Widgoff, Lipa
Tarbox, Julia A., <i>Kenmore</i>	Wiltsie, Ralph L., <i>Fredonia</i>
Unrath, Clara H.	Wohlueter, Lucy V.
Upson, Ralph, <i>Horseheads, N. Y.</i>	York, Dorothy M., <i>Batavia</i>
Waugh, John T., <i>Niagara Falls, Ont.</i>	Zittel, Harold E.
Webster, Emily H.	

## SOPHOMORES

Bates, Margaret E., <i>Akron</i>	Josephson, Emil
Bates, Marlo P., <i>Brooklyn, N. Y.</i>	Joy, Russell A., <i>Fredonia</i>
Black, Edith L., <i>Orchard Park</i>	Kaeselau, Ernest A.
Buffum, Edward S., <i>East Aurora</i>	Kendall, Luther H.
Buscaglia, John J., <i>Dunkirk</i>	Kreinherder, Henry W.
Cogan, Meyer	Land, Adelle
Conn, Alfred	Mietus, Conrad A.
Cristina, Jerome F.	Mikulski, Florence G.
Dahl, Edward A. H.	Miller, M. Virginia, <i>Niagara Falls</i>
Daniels, Francis R., <i>Rochester</i>	Mowat, Kenneth G.
Davis, James Leverett, <i>Penn Yan</i>	O'Connor, Charles M., <i>Oil City, Pa.</i>
DiNatale, Peter J., <i>Batavia</i>	Paciulli, Orlo C., <i>Elkland, Pa.</i>
Dolan, Bernard, <i>Halstead, Pa.</i>	Pillion, Ethel D., <i>Lackawanna</i>
Dolan, James E., <i>Halstead, Pa.</i>	Regan, J. Sutton, <i>Oswego, N. Y.</i>
Farber, Marvin	Ronkowski, Edward E.
Farrow, Franklin C.	Sanborn, Lee R., <i>Sanborn</i>
Gimbrone, Rose J.	Schmitt, Carl W. I.
Greenberg, Joseph	Schneider, Howard O.
Gursslin, Nova A., <i>Fort Erie, Ont.</i>	Smith, Beatrice A.
Hanley, Janet R.	Sutton, Carrie M., <i>Akron</i>
Hauser, David H., <i>Girard, Ohio</i>	Turner, Richard J., <i>Elmira</i>
Hitzel, Beulah C.	Vaughan, Stewart L., <i>Arcade</i>
Hoffman, Edward J.	Wende, Nora N., <i>Tonawanda</i>
Hoffman, John L.	Wende, Reinhardt C.
Holl, Frederick J. E.	Wendling, Irene J.
Hyman, Nathan	Wetzen, Delmo L.
Jerge, I. Lewis, <i>East Aurora</i>	Woodward, Pearl E.
Jones, Yerby F.	

## JUNIORS

Chassin, Norman A. N., <i>Eggertsville</i>	Graves, Florence S.
Greene, Kenneth D.	Reif, Katherine C.



# SPECIAL STUDENTS—Continued

DiBartolo, Mrs. Francisco E. '17	Goldstein, Bessie '19
Dickson, Elizabeth '16	Goodreds, Spencer V. '18
Diefenbach, Mabel E. '19	Gottsch, Edward D. '19
Dimmick, Fenton M. '19	Gourlay, Katherine '19
Dombrosky, Mary J. '19	Greene, Mrs. James W. '16
Drake, Ruth L. '19	Greenough, Josephine M. '19
Dry, Richard R. '19	Greenough, Loretto M. '19
Dunwoodie, Richard H. '19	Greenwood, John W. '19
Eberhardt, Dora '19	Grimm, Richard A. '19
Eckhardt, Ruth A. '19	Gruber, Emma E. '17
Elliott, Ida M., B. A. (Cornell). '15	Hall, Genevieve C. '19
Emens, Clara R. '19	Hall, Mrs. Myron S. '17
Erisman, Grace, <i>Lancaster</i> '19	Halloran, Anna E. '19
Evans, Cecelia '19	Hamilton, Edith '16
Exstein, Emma M. '19	Harmon, Nora '19
Fadale, Ignatius C. '19	Haugh, Lola E. '19
Fillmore, Maconda M. '14	Heald, Gertrude '19
Fink, Christine F. '19	Heath, Byron H., <i>Hamburg</i> . T. C. (U. of B.) '18
Fink, Harriet E. '19	Heath, Evelyn, B. A. (Vassar). '19
Fisher, Edna C. '19	Herlihy, Nellie G. '16
Fisher, William D. '17	Hershaft, Elena '19
Fix, Julia E. '17	Hess, Harry W. '19
Flavin, Helen D. '19	Higgins, Gordon H., <i>Ebenezer</i> '19
Folsom, Frances L. '15	Himmelsbach, Helen E. '19
Folts, Lavina '18	Hodges, A. Ruth '19
Ford, Julia '19	Hodges, Dorothy P. '17
Forman, Georgia '19	Hodgkins, Jessie P. '19
Forster, Viola M. '19	Hoffman, Mrs. Fred S. '18
Fraser, Mrs. Gertrude '18	Hofmeister, Eugene '18
Fuchs, Florence C. '19	Holmes, Katherine, A. C. (U. of B.) '19
Fuchs, M. Cornelia '15	Hughes, Elizabeth '19
Gates, Ada M. '18	Humble, Mrs. Ella S. '19
Gath, Emma L. '19	Hunt, Helen W. '19
Gath, Mary S. '15	Hurley, Margaret M. '19
Gedge, Alice G. '19	Ingram, Beatrice '19
Geoghan, Agnes E. '14	Ingram, Isabelle R. '19
Gidley, Mrs. Ellis H. '19	James, Ada E. '19
Gillette, Alethe L. '19	Jamieson, Jessie M. '16
Gilray, Phyllis A. '19	Kamprath, William B. '19
Gleb, Elsie E. '19	Kenneally, Anna A. '17
Goebel, Maria W. '19	Kenney, Cora D. '18
Goehle, Alfred M. '18	King, Laura M. '19
Goergen, Genevieve '19	
Goetz, Eleanore J. '18	

## SPECIAL STUDENTS—Continued

Kinnius, N. Charlotte '19	Miller, Clara S. '19
Kirk, Nellie '18	Miller, Henrietta E. '19
Kleis, Milford '19	Mills, Margaret B. '19
Knell, Louis J., M. D. (U. of B.) T. C. (U. of B.) '15	Minks, Ilona '19
Koine, Sabina '19	Moore, Wesley H. '19
Kolbe, Melo F. '19	Morey, Charles C. '17
Kraft, Mrs. Maud B. '14	Morgan, Mary L. '15
Kulbartz, Rev. Julius L. '19	Munn, Deli E. '19
LaDue, Lillian N. '19	Munson, Emma C. '19
Lange, Mrs. Emma '19	Murray, Isabella A. '19
Leahy, Fannie F. '19	Nairn, Bessie M. '19
Lee, Mary A. '19	Neal, Fannie A. '15
Leff, Sophia S., <i>Snyder</i> '19	Neil, Jean F. '18
Lenhard, Mrs. Mary J. '19	Neill, Mary A. C. '19
Leonard, Emma '18	Newlands, Ethel M. '18
Levine, Nathan '19	Nicholls, Mrs. Burr H. '17
Lewis, Mrs. Max '19	Nicol, Allen H. '19
Lieberman, Esther '19	O'Connor, John J. '19
Ludwig, Margaret A. '19	Oelrich, Emma C. '19
Ludwig, Mary L. '15	Olmstead, Helen M. '15
McCarthy, Mary M. '19	Orr, George A. '15
McClelland, Margaret D. '19	Pape, Florence H. '19
McGarvey, Charles V. '19	Park, Mrs. Julian '14
McGowan, Anna S. '19	Parke, Mrs. Fenton M. '16
McHale, Katharine A. '19	Parke, Mrs. Roberta '19
McKinley, Mercedes '19	Paris, Anthony C. '19
McMichael, Frances F. '19	Peacock, Harleigh '18
McMichael, Helen C. '19	Peck, Pearle M., <i>Hamburg</i> '19
McNett, Eugenie '19	Penfold, Arthur '18
McTague, May '19	Phillippi, Joseph F., <i>Hamburg</i> '17
Mache, Charles L. '19	Porter, Ellen L. '19
Mackey, William A. '19	Pretty, Alice E. '19
Madigan, Mary H. '19	Price, Gwendolyn M. '19
Mason, Irene '18	Pritchard, Florence E. '16
Mather, Leroy C. '19	Pusch, Reinhold T. '19
Maurer, Lydia A. '19	Raab, Emil P. '19
Maxwell, Margaret A. '19	Rands, Marion L. '18
Meredith, Sullivan A. '19	Rasmus, Laura '19
Merington, Mary E. '16	Reagan, Richard A. '19
Mets, Madeline '19	Reed, Jane R. '19
Mevius, Ida M. '19	Rhodes, Eli A. '18
Miceli, Mrs. Frank A. '16	Rich, Mrs. Andrew J. '16
Millard, Columbus N. '19	Riester, Adele E. '19
	Rogers, Edith A. '19

## SPECIAL STUDENTS—Continued

Romatowski, Frances B. '19	Treble, Mrs. A. M. '18
Rooney, Josephine E. '19	Tresselt, Elsie E. '19
Roosa, Charles T., B. A. (Hamilton). '19	Underwood, Harold B. '19
Rosenthal, Rose '19	Van Arsdale, Mary M. '14
Roth, Abraham '19	Villiaumé, Emma L. '19
Rung, Lewis W. '19	Volz, Edward P. '19
Sauerwein, Mrs. Henry '19	Walsh, John J. '19
Schaefer, Bessie S. '19	Wamsley, Paul '17
Schelbach, Alma E. '18	Wasson, Mrs. A. S. '19
Schelbach, Marie E. '19	Watkins, Mary E. '16
Schwenger, Bertha '19	Weber, Kate B. '19
Seel, Lillie S. '19	Wedekindt, Julia '19
Seitz, Cora M. '13	Weisner, Laura M. '19
Sharp, Mrs. Edward A. '18	Welker, Willard G. '19
Shaw, Dora E. '19	Werner, Cora J. '19
Shepard, Alvin W. '19	Wheaton, Mildred L. '19
Shepard, May L. '19	Wheeler, Winifred A. '15
Short, Ella J. P. '19	Whitney, George R. '19
Shumway, Lillian M. '19	Whitney, Mrs. Leleah '19
Silverberg, Celia '18	Wiener, Cecil B. '19
Sloan, Mary, M. D. '19	Wilbur, Mrs. B. S. '19
Smallenburg, Harry R. '17	Wilner, Mrs. Edith L. '19
Smith, Beatrice F. '15	Wilson, Helen M. '19
Smith, Mrs. Dorothea A. '19	Wittlief, Bertha G. '15
Smith, Mrs. E. R. L., Ph. G. (U. of B.) '19	Wunsch, Jule '19
Smith, Georgia A., <i>Kenmore</i> '18	York, Agnes M. '19
Snyder, George P., <i>Alden</i> '19	Zahm, Robert H. '19
Sommer, Mrs. Augusta W. '13	Zimmerman, Lydia K., <i>Hamburg</i> '19
Spaulding, Blanche '19	Zingsheim, Alice M. '19
Speidel, Clara B. '19	Zittel, Lelia B. '19
Spinner, Lena '15	Zurbrick, Warren W. '19
Staples, Mrs. Esther A. '19	
Steele, Mrs. Frank B. '19	
Story, Anne M. '19	
Sutherland, Hattiebel	
Sweeney, Anna E. '19	
Taber, Marjorie A. '19	
Taylor, Jennie M. '19	
Taylor, Olive G. '19	
Templeton, Margaret C. '19	
Terrasse, Bertha E. '17	
Trant, Amelia Earle, M. D. (U. of B.) '16	

### Totals (Exclusive of Summer Session)

Freshmen .....	95
Sophomores .....	55
Juniors .....	4
Seniors .....	4
Special Students .....	318

476



## SUMMER SESSION, 1919

Atkins, Francis C.	Morgan, Mary L.
Austin, Mrs. James R.	Mowat, Kenneth G.
Blaisdell, Harold C., <i>Cherry Creek</i>	Muscato, George, <i>Silver Creek</i>
Bukowski, Edward	Nagle, Nathan, <i>Gowanda</i>
Bullard, Carlton W., <i>Philadelphia, N. Y.</i>	O'Malley, Jane
Carl, Fred G. G.	Oyer, Demont, <i>Springville</i>
Dayman, Aubrey C.	Park, Mrs. Julian
DeFries, Garold G., <i>Lancaster</i>	Petrino, Peter A.
Engstrom, Eugene E.	Potter, Milton G.
Ferrand, Elsie M., <i>Gardenville</i>	Roberts, Margaret C.
Grabau, Elizabeth S.	Roizen, David B.
Gross, Carl	Roosa, Charles T.
Havens, Mrs. Georgia J.	Ryan, Mark
Hofmeister, Eugene	Sauer, Emile C., <i>Snyder</i>
Kennedy, Edward K.	Scherer, Leon E., <i>Lancaster</i>
Kessel, Brina	Stewart, Lewis, <i>Clyde</i>
Knab, Joseph	Terrasse, Bertha E.
LaBurt, Harry A., <i>Elmira</i>	Townsend, Richard E.
Lieber, Margaret C.	Turner, Richard J., <i>Elmira</i>
Maciejewski, Ambrose A.	Twist, August H.
Messenger, John M., <i>Oakfield</i>	Walker, Ernest G., <i>Williamsville</i>
Moffett, Wenonah	Wende, David T.

Total summer session..... 44

# Alumni Associations

## FEDERATED ALUMNI ASSOCIATION

### Organized University Day (February 22) 1915

This Association was organized on University Day (February 22, 1915), and comprises the alumni of all the departments of the University. It is managed by the House of Delegates, consisting of three representatives from each department, viz.: the president of each departmental association, one member appointed by him, the Dean of the Department, and the presidents of the five district branch associations. The President of the Federated Alumni is respectively the President of the Departmental Association in order of seniority.

The Association holds its annual meeting on the evening of University Day—the sixth meeting to be held in Buffalo on February 22, 1920.

### OFFICERS 1919-1920

<i>President</i> .....	CHARLES W. DIFFIN, A. C., '17, Toronto (President Chemistry Alumni)
<i>Vice-President</i> .....	JOHN A. STAPLETON, M. D., '91, Rochester, N. Y. (President Medical Alumni)
<i>Secretary</i> .....	A. BERTRAM LEMON, Ph. G., Phar. D., '13, Buffalo (Delegate Pharmacy Alumni)
<i>Treasurer</i> .....	JAMES L. CLEMENTS, D. D. S., '10, Buffalo (President Dental Alumni)

### SOUTHERN NEW YORK AND NORTHERN PENNSYLVANIA DISTRICT

Organized March 30, 1914, at Elmira; next meeting, March 29, 1920, at Elmira

<i>President</i> .....	ABRAHAM LANDE, M. D., '05, Elmira
<i>Secretary</i> .....	HARRY C. JEWETT, Ph. G., '06, Binghamton

### ROCHESTER DISTRICT

Organized at Rochester, on April 15, 1914; next meeting at Rochester, April 15, 1920.

<i>President</i> .....	GEORGE M. GILBERT, Ph. G., '08, Rochester
<i>Secretary</i> .....	RALPH B. INGLESBEE, LL. B., Rochester

### CENTRAL AND NORTHERN NEW YORK ALUMNI ASSOCIATION

Organized at Syracuse, on February 10, 1915; next meeting at Syracuse, January 20, 1920.

<i>President</i> .....	CHARLES F. TUCKER, M. D., '94, Syracuse
<i>Secretary</i> .....	CHARLES A. BRADSHAW, D. D. S., '95, Syracuse

## CHAUTAUQUA DISTRICT

Organized at Jamestown, November 18, 1915; next meeting, November, 1920.

*President*.....S. J. EARLY, D. D. S., '09, Olean

*Secretary*.....MELVIL S. COXE, M. D., '04, Dunkirk

## METROPOLITAN DISTRICT

Organized at New York City, March 28, 1916; next meeting, January 21, 1920.

*President*.....S. W. S. TOMS, M. D., '91, Nyack

*Secretary*.....FRANK M. ENDE, M. D., '12, New York City

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In addition, each department of the University has its separate Alumni Association.

# **Announcements of the Professional Departments for 1920-1921**

A copy of the catalogue of each department will be sent on application to the registrar.

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## **MEDICAL DEPARTMENT**

The 75th regular session begins September 20, 1920. The only medical school in a city of 480,000 population; clinical facilities at twelve hospitals and dispensaries; 15,000 volumes in library; ample number of annual hospital appointments in the city; faculty of over 100. Extensive opportunities for study in laboratories, hospital wards, and dispensaries. Two-year college entrance required.

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## **DEPARTMENT OF PHARMACY AND ANALYTICAL CHEMISTRY**

The 35th regular session begins September 20, 1920. Three courses of instruction are offered—Pharmacy, Analytical Chemistry, and Post-graduate, leading respectively to the degrees of Ph. G.; A. C.; Phar. M., and Ph. C. The post-graduate course consists of an additional year's work following the completion of the two-year pharmacy course, and leads to the degree of Pharmaceutical Chemist or Master of Pharmacy. The pharmacal, chemical, pharmacognocal, microscopical, and other laboratories are completely equipped for instruction. The analytical chemistry laboratories are also complete in equipment, and field work is ample, due to the various industries in and about Buffalo.

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## **DEPARTMENT OF LAW**

The 30th regular session begins September 20, 1919. The course is one of three years, leading to the degree of Bachelor of Laws, and affords a practical legal training, fitting the student for immediate work upon graduation. The School occupies the entire building at 77 West Eagle Street, situated opposite the City and County Hall and in close proximity to the City Court building, which constitute the laboratories of the law student.

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## **DEPARTMENT OF DENTISTRY**

The 29th regular session begins September 20, 1919, in the building erected for this department on Goodrich Street, adjoining the building of the departments of Medicine, Pharmacy and Chemistry. Every facility for the study of dentistry in all its branches has been provided, the equipment being adequate in every respect. Special attention is given to practical work, the infirmary furnishing an abundance of clinical material.

# APPLICATION FOR ADMISSION

The undersigned hereby applies for admission to the University of Buffalo, and submits the following information, for the accuracy of which he vouches:

Admission is desired to the [Check Course Desired]	{ B. A. B. S. Pre-Medical Partial	Course
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(If the candidate is applying for admission to any other department of the University, application therefor should be addressed to the registrar of the department concerned.)

Date of Application.....

Name in full .....

Date of birth.....and place.....

Home or permanent address: Street.....

City and State.....

Present (Buffalo) address .....

Name of parent or guardian (and address, if different from yours)

.....

.....

High School or Academic course attended (name of school)

.....

Number of years attended.....Year graduated.....

Number of Regents diploma (if issued) .....

If applicant has ever been in attendance at any college, university, or professional school, its name and location should be stated, with dates of attendance.....

**No obligation is incurred by filing this application, which should be sent (preferably prior to September 1) to the**

**REGISTRAR, COLLEGE OF ARTS AND SCIENCES,  
UNIVERSITY OF BUFFALO,  
BUFFALO, N. Y.**

The candidate's admission is dependent on the presentation and approval by the Committee on Admissions of the Statement Required for Admission, filled out by the school authorities and certified to by the principal of the secondary institution last attended. Until it is received matriculation is only provisional. See page 12.



## CALENDAR-1920

## JULY.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	4	5	6	7	8	9	10
11	12	13	14	15	16	17	11	12	13	14	15	16	17
18	19	20	21	22	23	24	18	19	20	21	22	23	24
25	26	27	28	29	30	31	25	26	27	28	29	30	31

## AUGUST.

s	M	T	W	T	F	s	s	M	T	W	T	F	s
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29							29	30	31				

SEPTEMBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	1	2	3	4
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30	31	..	..	..	26	27	28	29	30	..	..

## OCTOBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	1	2
4	5	6	7	8	9	10	3	4	5	6	7	8	9
11	12	13	14	15	16	17	10	11	12	13	14	15	16
18	19	20	21	22	23	24	17	18	19	20	21	22	23
25	26	27	28	29	30	..	24	25	26	27	28	29	30
						31							

## NOVEMBER.

[illegible]

DECEMBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	1	2	3	4
6	7	8	9	10	11	12	5	6	7	8	9	10	11
13	14	15	16	17	18	19	12	13	14	15	16	17	18
20	21	22	23	24	25	26	19	20	21	22	23	24	25
27	28	29	30	..	..	..	26	27	28	29	30	31	..



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# University of Buffalo Bulletin

(Published by College of Arts and Sciences)

Recent issues have included:

April, 1917—"Food Preparedness": Professor Sy.

October, 1917—"Food Values" (illustrated): Professor Sy.

April, 1918—"Drinking Water" (illustrated): Professor Sy.

July, 1918—"Subject Peoples under the Teutons" (illustrated): Professor Park.

August, 1918 (extra number)—"Reflections on the Great War": Professor Goetz.

April, 1919—"Intermediate Schools: The Buffalo Plan": Superintendent E. C. Hartwell and W. H. Pillsbury.

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## University of Buffalo Studies

September, 1919, No. 1—"Education and Autocracy in Russia":  
Professor Leary.

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## University Publications

Catalogues, alumni directories, reports, etc., of the Departments of Medicine, Pharmacy, Dentistry, Law, Chemistry.

A History of the University, 1846-1917.

Any of the above will be sent free on application to the registrar of the proper department.